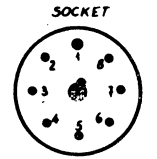
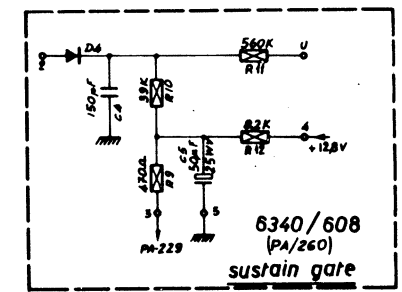
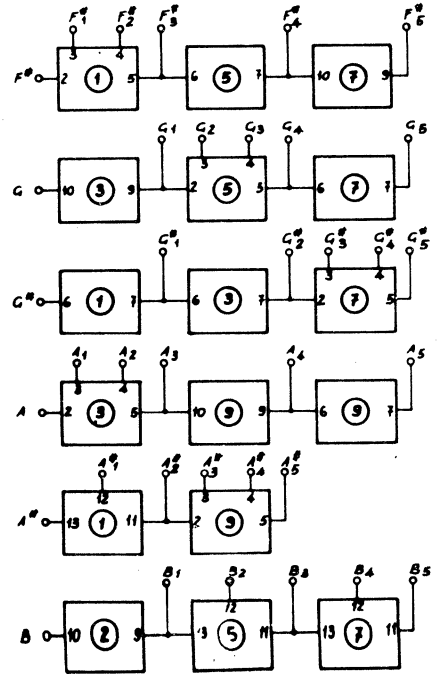
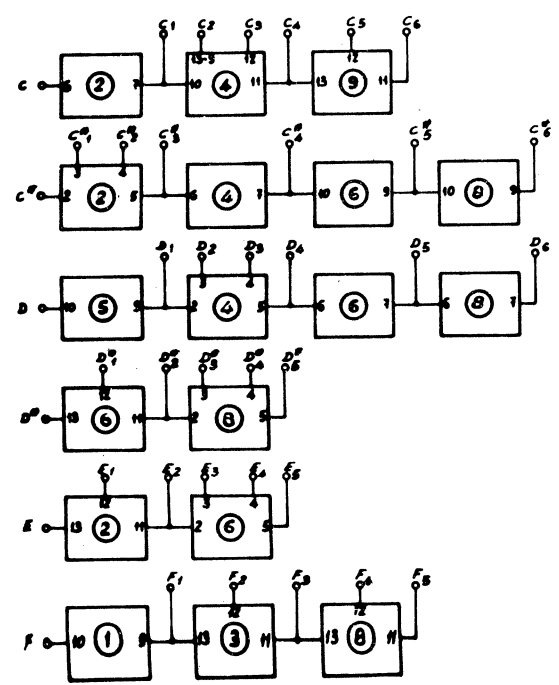
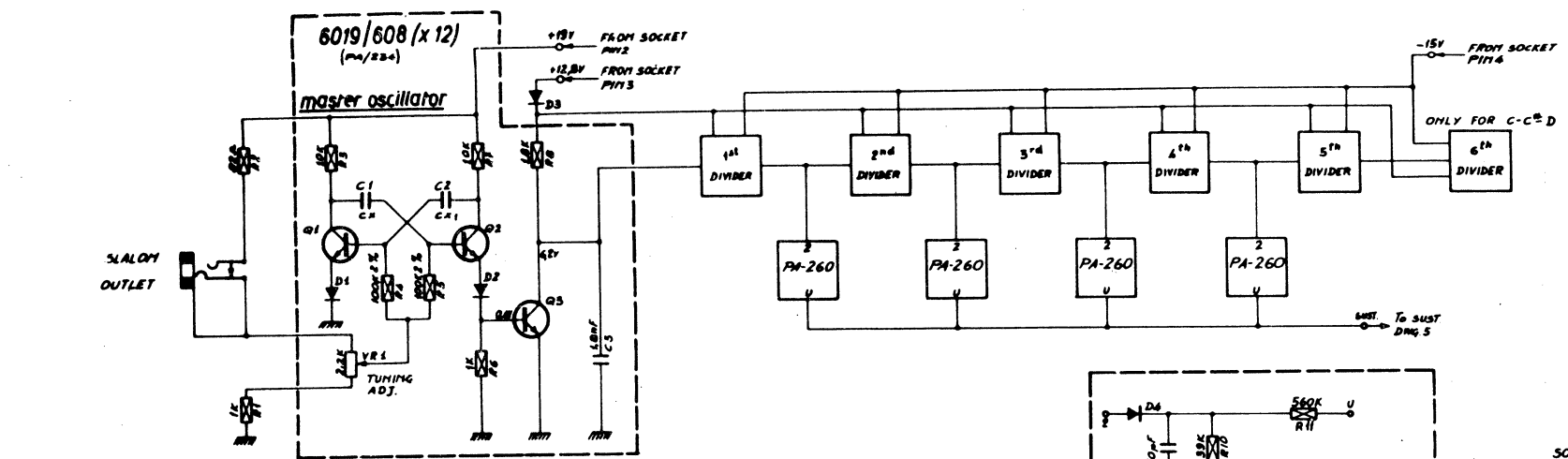


FARFISA

TRANSICORD DE LUXE

SERVICE MANUAL



COMPONENTS ARE NUMBERED AS FOLLOWS:

RESISTORS FROM R1 TO R18
CAPACITORS FROM C1 TO C5
DIODES FROM D1 TO D4
TRIMMER FROM VR1 TO VR1
TRANSISTORS FROM Q1 TO Q8
NUMBERS HIGHER THAN THE ABOVE LISTED REFER TO VARIANTS

NOTE	FREQUENCY Hz.	CX - CX1 pF
RE ₁ D ₁	2488	2630
MI ₁ E ₁	2636	2480
FA ₁ F ₁	2794	2340
FA ₂ F ₂	2960	2210
SOL ₁ G ₁	3136	2080
SOL ₂ G ₂	3322	1970
LA ₁ A ₁	3520	1855
LA ₂ A ₂	3729	1750
SI ₁ B ₁	3951	1655
DO ₁ C ₁	4186	1560
DO ₂ C ₂	4435	1475
RE ₂ D ₂	4698	1395

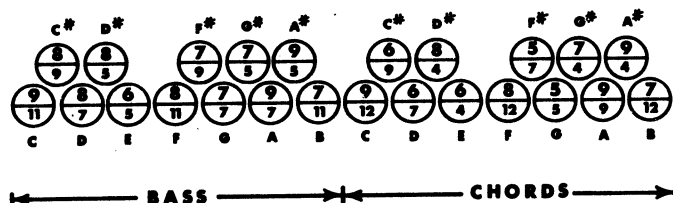
SOCKET CONNECTIONS	
PIN	INFORMATION
1	GROUND
2	+15V
3	+12.8V
4	-15V
5	+21V
6	GROUND
7	AUDIO GROUND
8	SIGNAL OUTPUT

NOTES:
1) ALL RESISTORS 1/2 W 10% UNLESS OTHERWISE SPECIFIED.
2) SEE PARTS LIST FOR COMPONENT PART NUMBERS.

REVERSE KEYBOARD - DO (C) 2nd ROW

REFERENCE TABLE KEY to GENERATOR-BOARD

System : Belgian; Charleroi

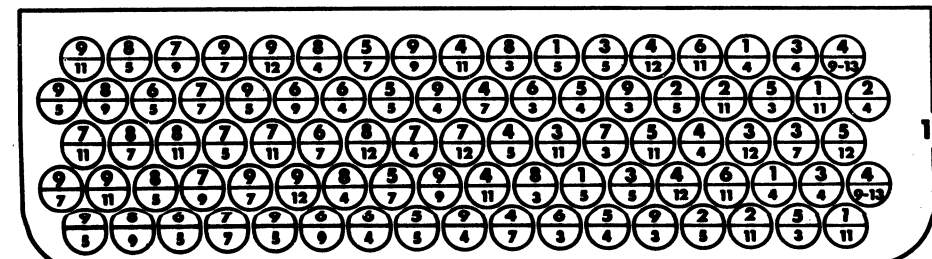
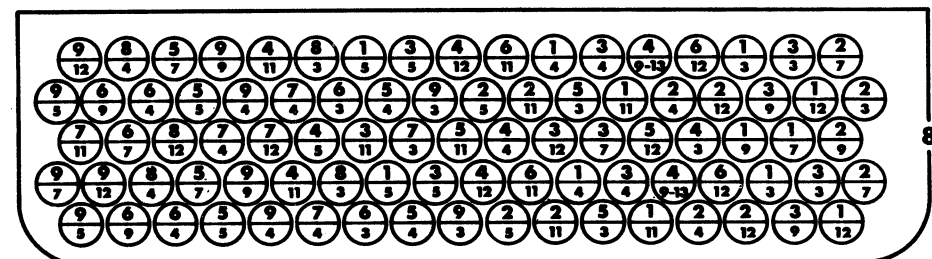
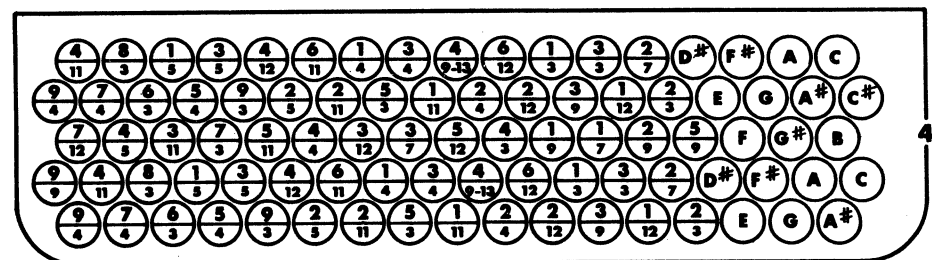
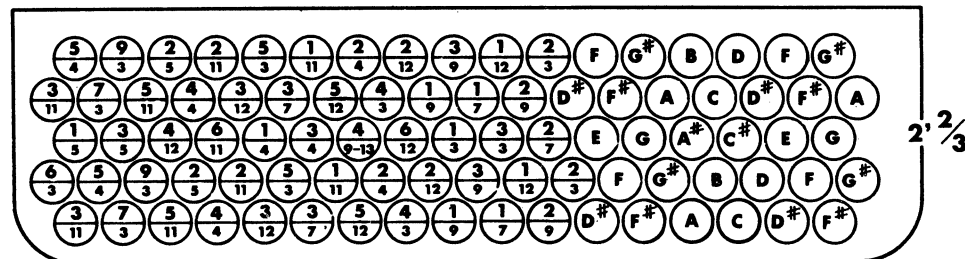


1. NOTE

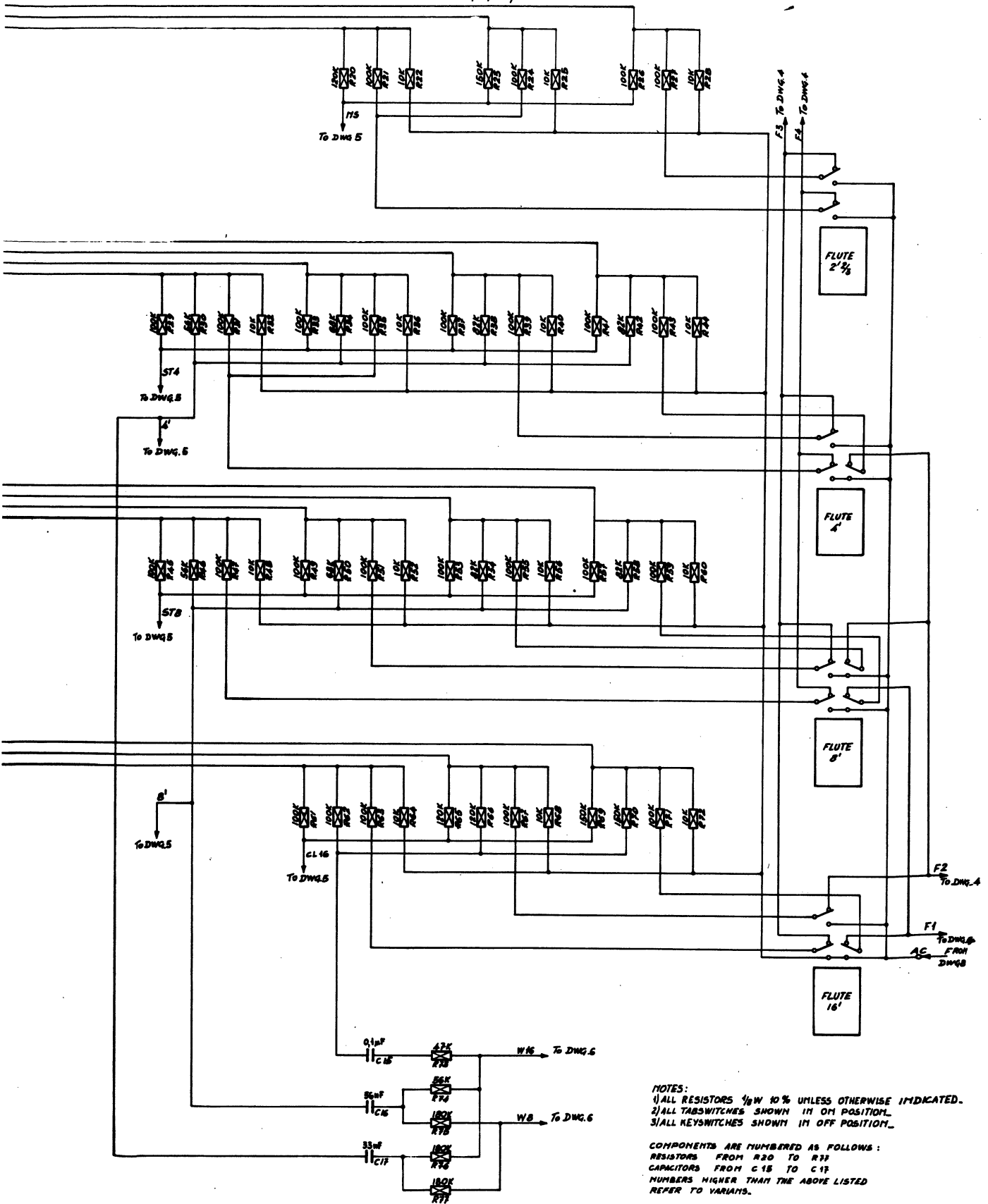
The tone generators referring to the notes of the keyboard are indicated with two numbers marked on the printed circuit PA-287. The upper number indicates the integrated circuit. The lower one indicates the pin of the IC.

2. CONNECTION OF THE IC

In order to avoid any mistake, make connections taking care that the positions of the pins are not inverted on the printed circuit board PA-287. On the printed board the positions are indicated by numbers 1-7 and 8-14 while the corresponding pins of the IC can be found by placing the IC in such a position that figure reads from left to right QN----



6350/608
(PA/267)

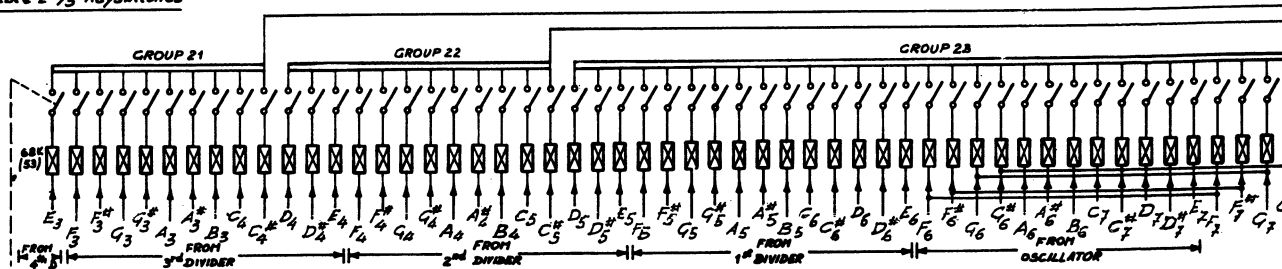


NOTES:
1) ALL RESISTORS 1/8 W 10% UNLESS OTHERWISE INDICATED.
2) ALL TABSWITCHES SHOWN IN ON POSITION.
3) ALL KEYSWITCHES SHOWN IN OFF POSITION.

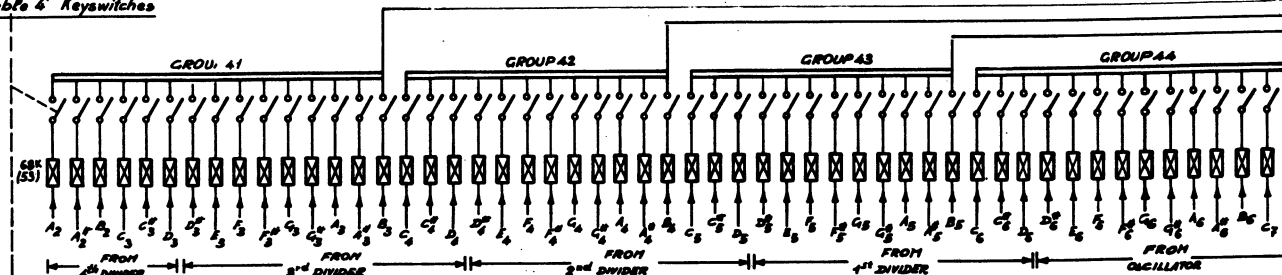
COMPONENTS ARE NUMBERED AS FOLLOWS:
RESISTORS FROM R20 TO R31
CAPACITORS FROM C15 TO C17
NUMBERS HIGHER THAN THE ABOVE LISTED
REFER TO VARIANTS.

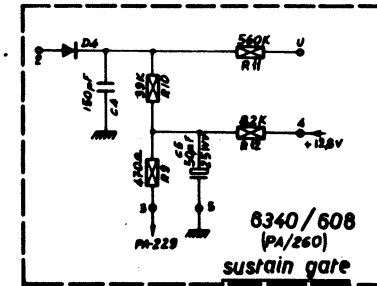
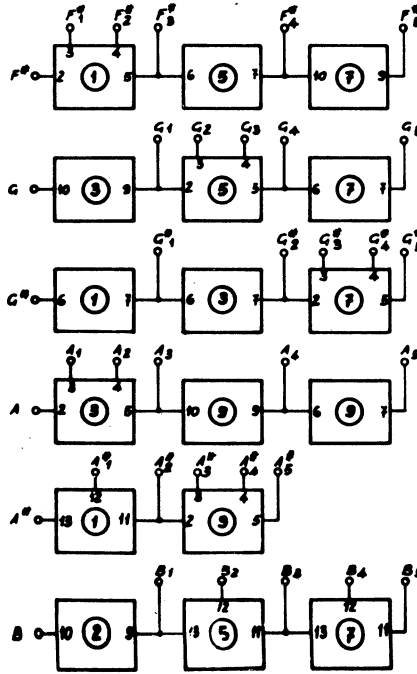
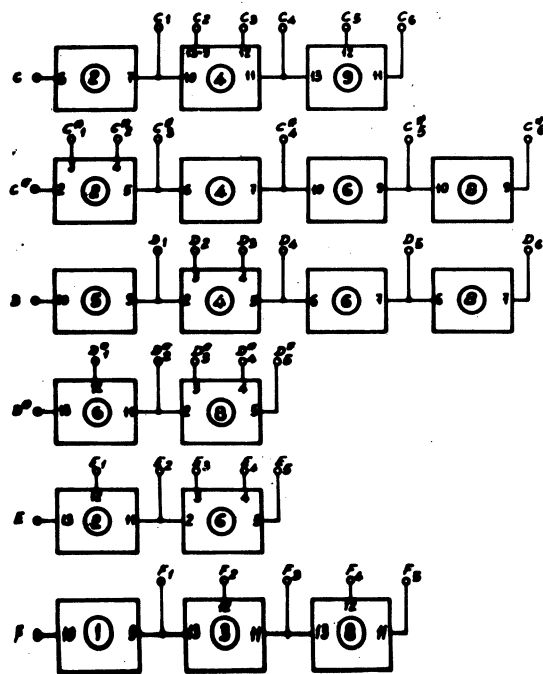
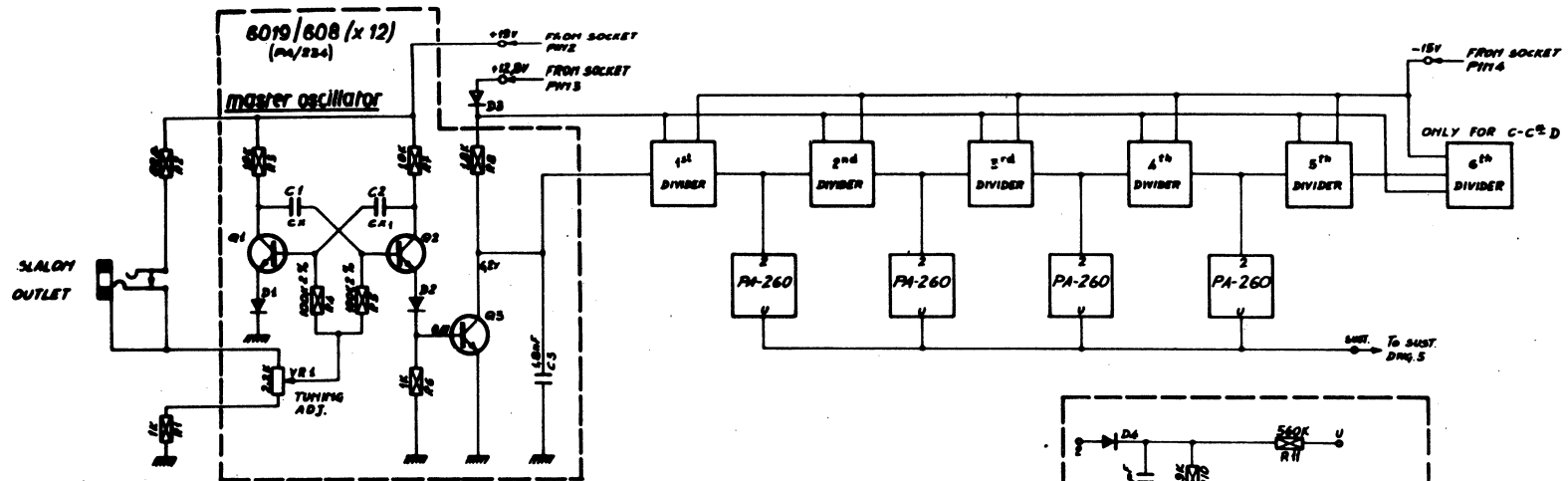
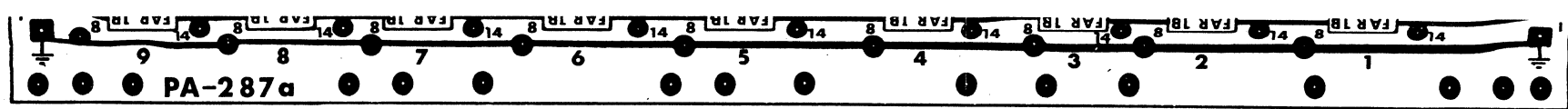
DWG 3	REV 5	DATE 10-10-80	REVISION				
OF 8	1	10-10-80	OF				

Treble 2¹/₂ Keyswitches



Treble 4' Keyswitches





COMPONENTS ARE NUMBERED AS FOLLOWS:

RESISTORS FROM R1 TO R18
CAPACITORS FROM C1 TO C8
DIODES FROM D1 TO D4
TRIMMER FROM VR1 TO VR1
TRANSISTORS FROM Q1 TO Q8
NUMBERS HIGHER THAN THE ABOVE LISTED REFER TO VARIANTS

NOTE	FREQUENCY Hz.	CX - CR1 pF
RE ₆ D ₆	2400	2630
PI ₆ E ₆	2636	2480
PA ₆ F ₆	2794	2340
PA ₆ F ₆	2960	2240
SO ₆ G ₆	3136	2080
SO ₆ G ₆	3322	1970
LA ₆ A ₆	3520	1855
LA ₆ A ₆	3729	1750
S ₆ B ₆	3951	1655
DO ₇ C ₇	4106	1560
DO ₇ C ₇	4435	1475
RE ₇ D ₇	4698	1395

SOCKET CONNECTIONS	
PIN	INFORMATION
1	GROUND
2	+15V
3	+12.5V
4	-15V
5	+21V
6	GROUND
7	AUDIO GROUND
8	SIGNAL OUTPUT

NOTES:
1) ALL RESISTORS 1/2 W 10% UNLESS OTHERWISE SPECIFIED.
2) SEE PARTS LIST FOR COMPONENT PART NUMBERS.

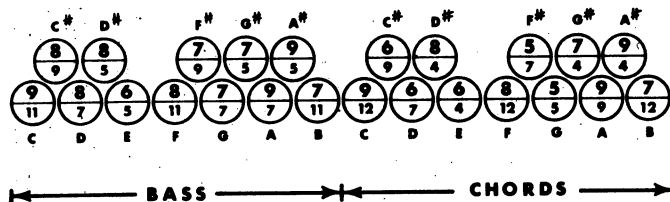
DWG 2 b

REV 2	CODE SE-106	DATE 20-1-70	REVISION					
OF 8	H		CP					

RIGHT KEYBOARD - DO (C) 1st ROW

REFERENCE TABLE KEY to GENERATOR-BOARD

System : Italian; French
Belgian; Bruxellois
Swiss; Swedish

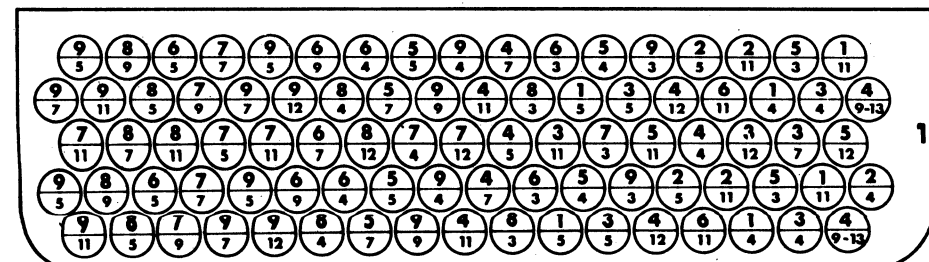
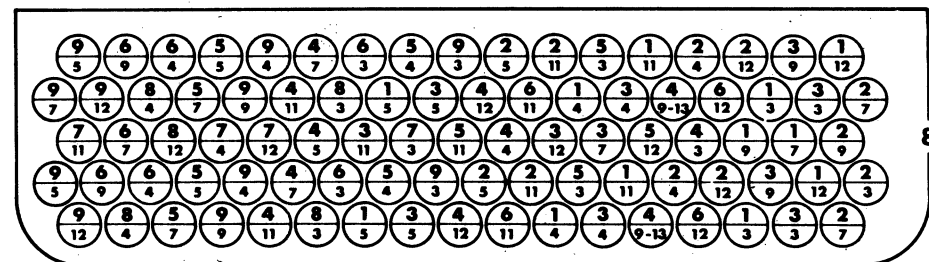
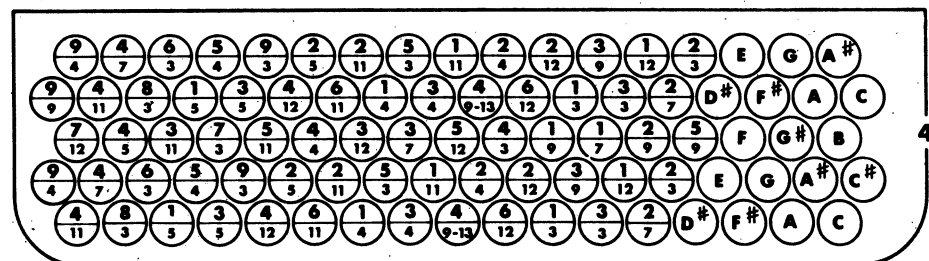
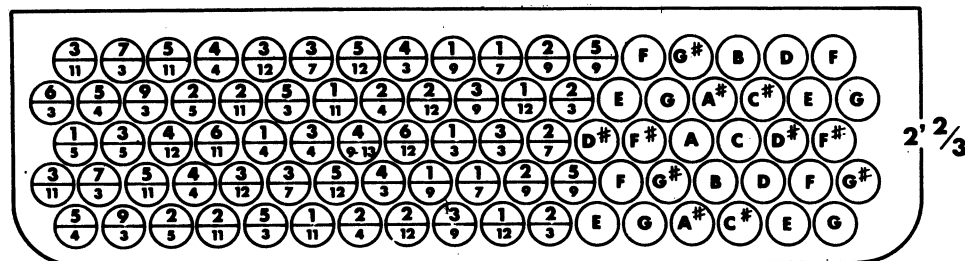


1. NOTE

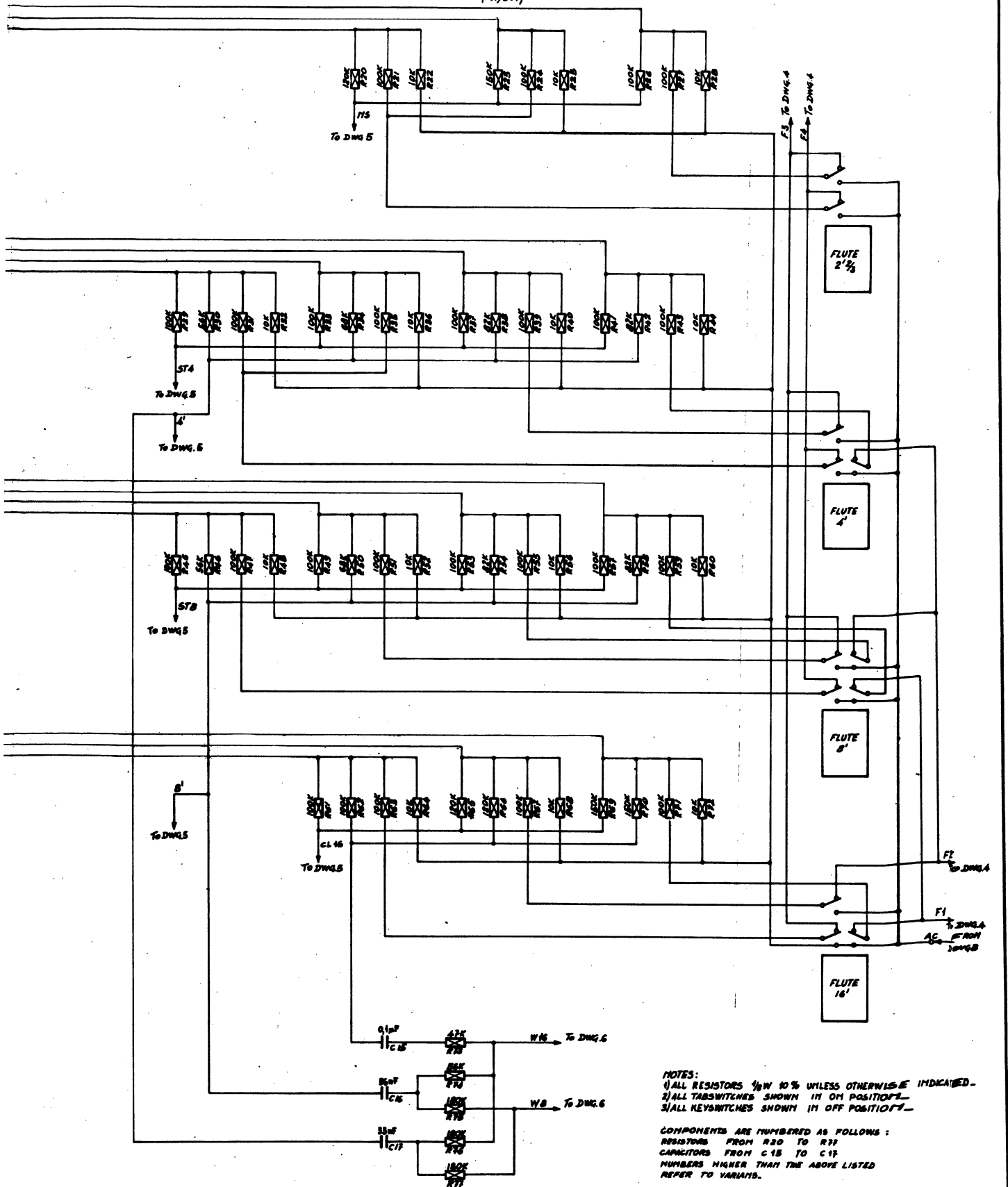
The tone generators referring to the notes of the keyboard are indicated with two numbers marked on the printed circuit PA-287. The upper number indicates the integrated circuit. The lower one indicates the pin of the IC.

2. CONNECTION OF THE IC

In order to avoid any mistake, make connections taking care that the positions of the pins are not inverted on the printed circuit board PA-287. On the printed board the positions are indicated by numbers 1-7 and 8-14 while the corresponding pins of the IC can be found by placing the IC in such a position that figure reads from left to right QN---




6350 / 608
(PA/267)



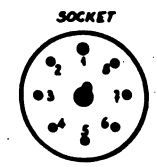
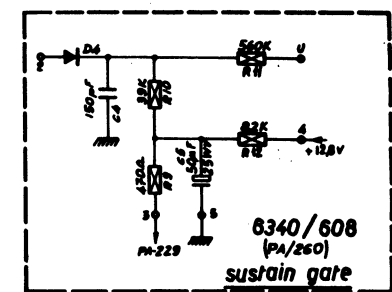
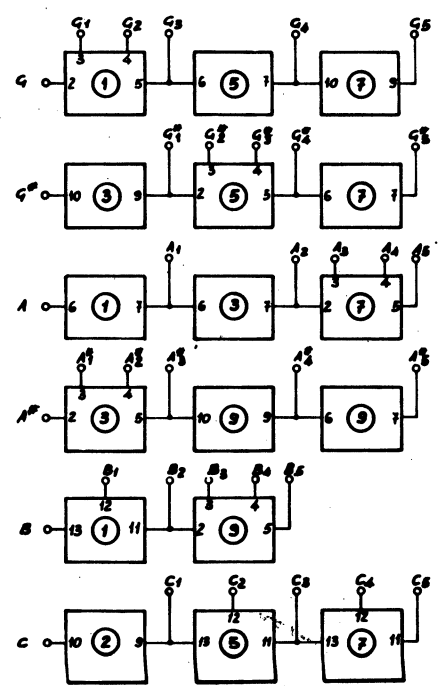
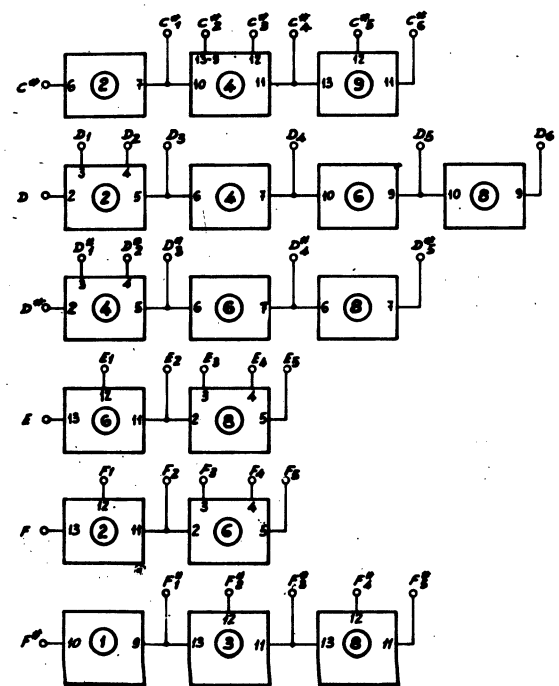
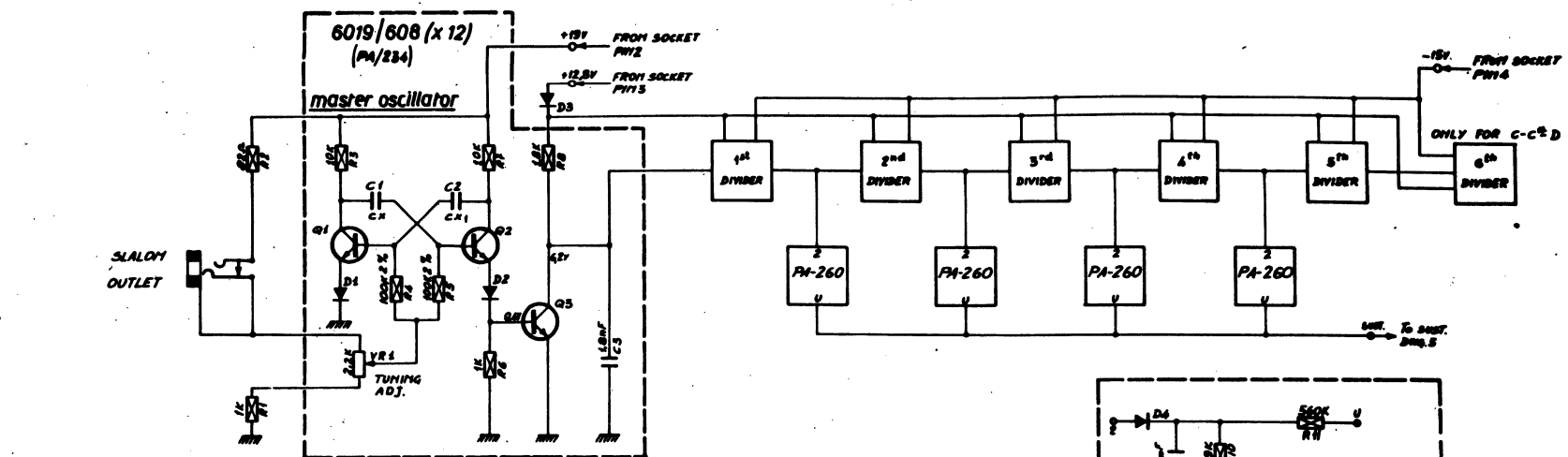
NOTES:
1) ALL RESISTORS 1/8W 10% UNLESS OTHERWISE INDICATED.
2) ALL TABSWITCHES SHOWN IN ON POSITION.
3) ALL KEYSWITCHES SHOWN IN OFF POSITION.

COMPONENTS ARE NUMBERED AS FOLLOWS :
RESISTORS FROM R20 TO R77
CAPACITORS FROM C15 TO C17
NUMBERS HIGHER THAN THE ABOVE LISTED
REFER TO VARIANTS.

	Dep. 3	Case	DATE	REVISION			
	OF 8	SE-106/a	PG-470	OF			

[illegible]

System : Belgian; Charleroi
Dutch; Norwegian



COMPONENTS ARE NUMBERED AS FOLLOWS:

RESISTORS FROM R1 TO R18
CAPACITORS FROM C1 TO C5
DIODES FROM D1 TO D4
TRIMMER FROM VR1 TO VR1
TRANSISTORS FROM Q1 TO Q3
NUMBERS HIGHER THAN THE ABOVE LISTED REFER TO VARIANTS

NOTE	FREQUENCY Hz.	CX - CH	P.F.
RE ₁ D ₁	2400	2630	
HI ₁ E ₁	2636	2400	
FA ₁ F ₁	2784	2340	
FA ₂ F ₂	2960	2240	
SOL ₁ G ₁	3136	2000	
SOL ₂ G ₂	3322	1910	
LA ₁ A ₁	3520	1855	
LA ₂ A ₂	3729	1750	
SL ₁ B ₁	3951	1635	
DO ₁ C ₁	4186	1560	
DO ₂ C ₂	4433	1475	
RE ₂ D ₂	4698	1395	

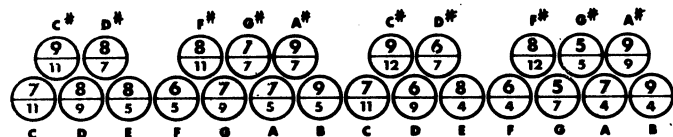
SOCKET CONNECTIONS	
PIN	INFORMATION
1	GROUND
2	+15V
3	+12.5V
4	-15V
5	+24V
6	GROUND
7	AUDIO GROUND
8	SIGNAL OUTPUT

NOTES:
1) ALL RESISTORS 1/4 W 10% UNLESS OTHERWISE SPECIFIED.
2) SEE PARTS LIST FOR COMPONENT PART NUMBERS.

REVERSE KEYBOARD - DO (C) 3rd ROW

REFERENCE TABLE KEY to GENERATOR-BOARD

System : Belgian; Charleroi
Dutch; Norwegian



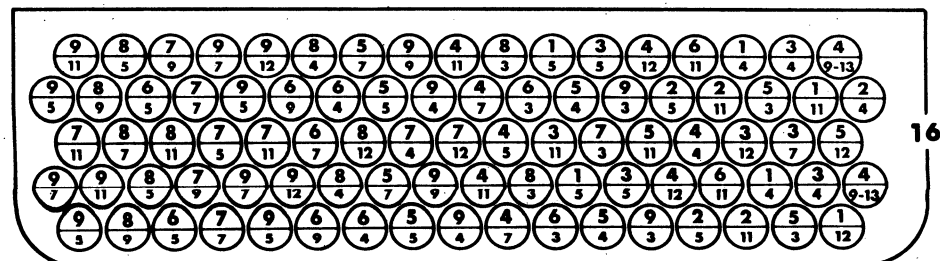
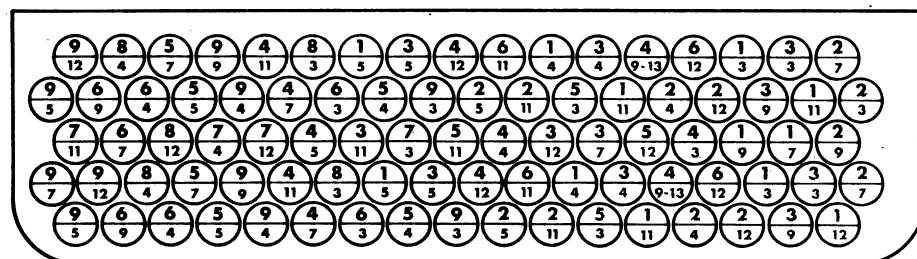
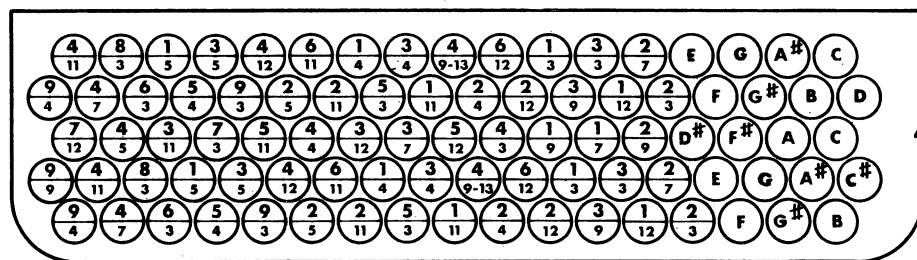
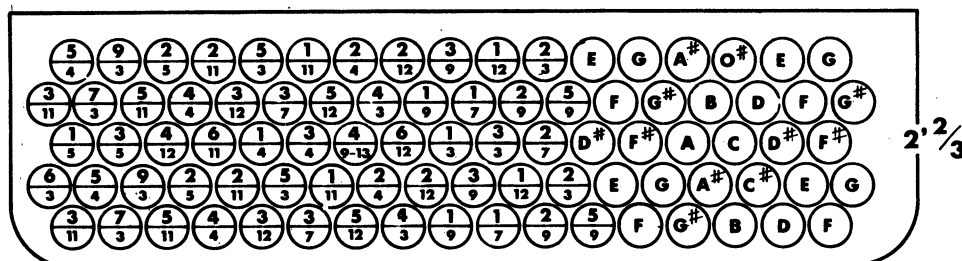
← BASS → CHORDS →

1. NOTE

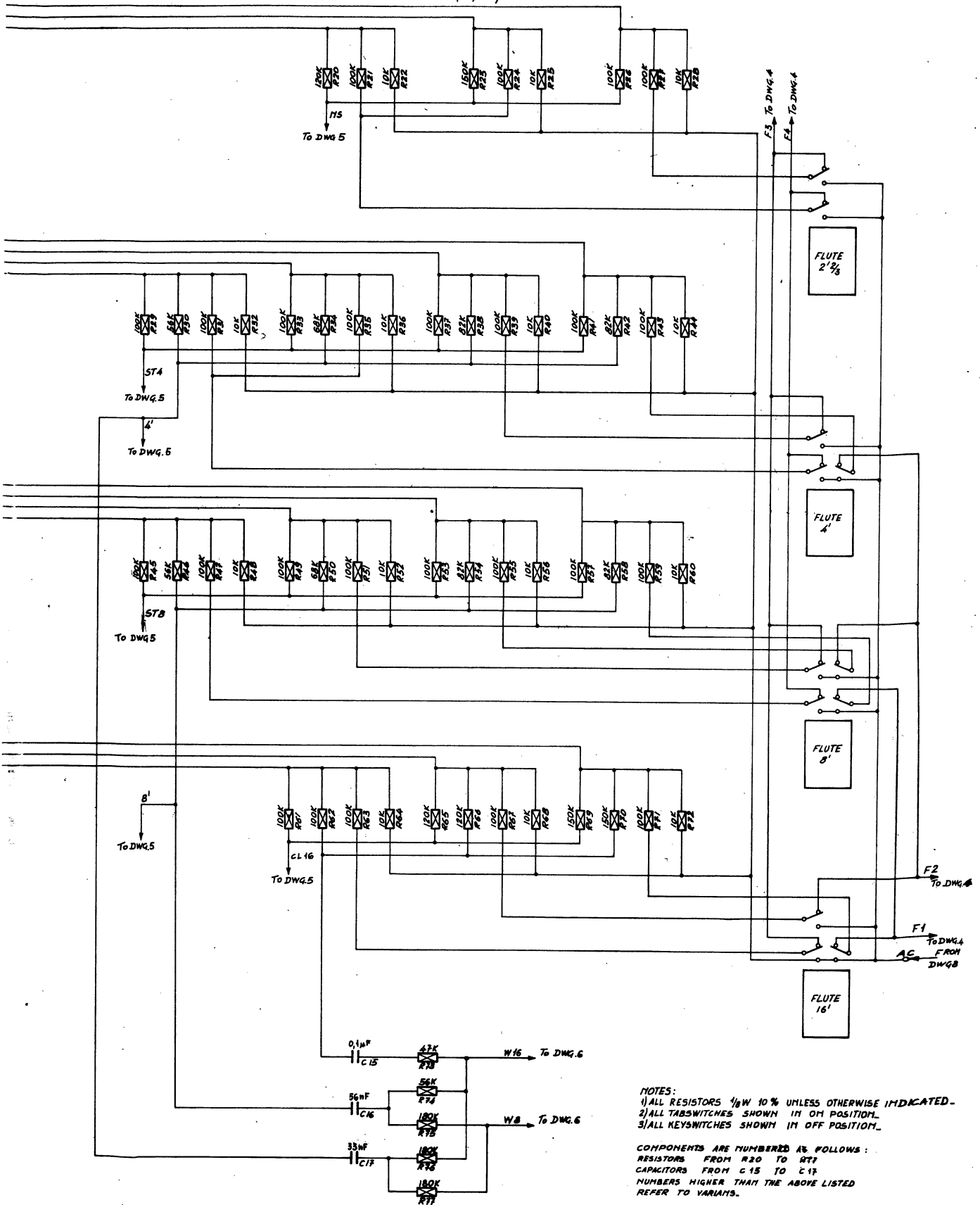
The tone generators referring to the notes of the keyboard are indicated with two numbers marked on the printed circuit board PA-287. The upper number indicates the integrated circuit. The lower one indicates the pin of the IC.

2. CONNECTION OF THE IC.

In order to avoid any mistake, make connections taking care that the positions of the pins are not inverted on the printed circuit board PA-287. On the printed board the positions are indicated by numbers 1-7 and 8-14 while the corresponding pins of the IC can be found by placing the IC in such a position that figure reads from left to right GN---



6350/608
(PA/267)



- NOTES:
- 1) ALL RESISTORS 1/4W 10% UNLESS OTHERWISE INDICATED.
 - 2) ALL TABSWITCHES SHOWN IN ON POSITION.
 - 3) ALL KEYSWITCHES SHOWN IN OFF POSITION.

COMPONENTS ARE NUMBERED AS FOLLOWS:

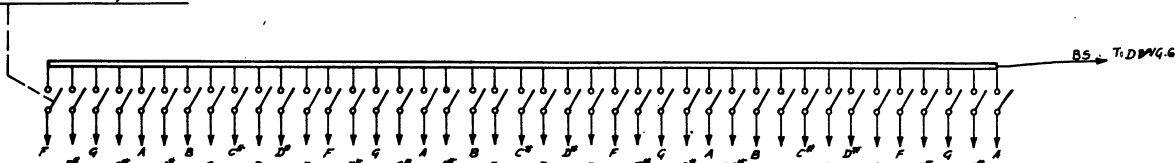
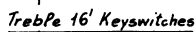
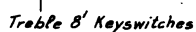
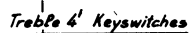
RESISTORS FROM R20 TO R77

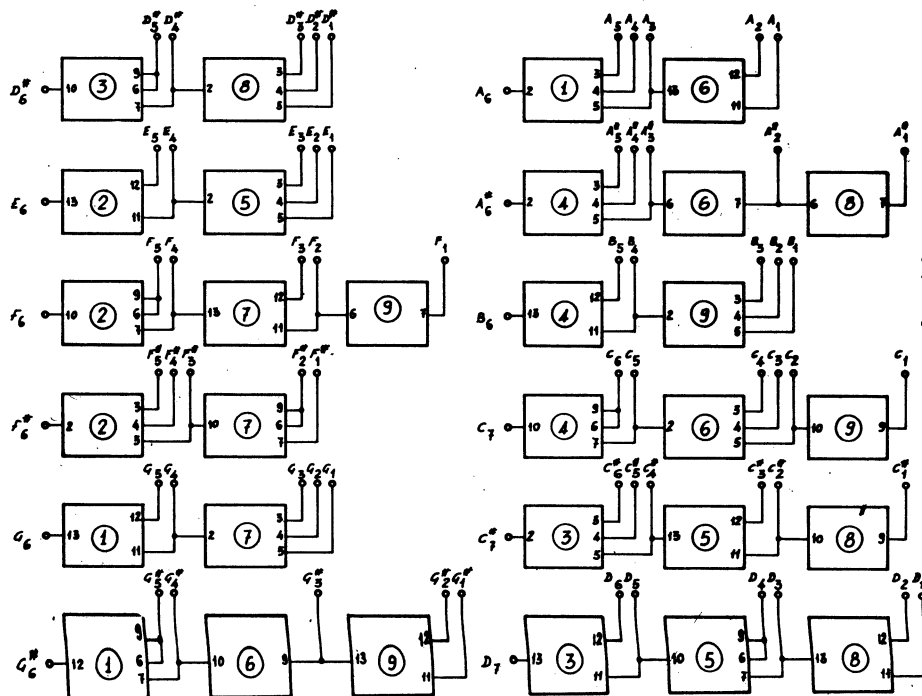
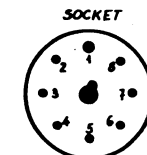
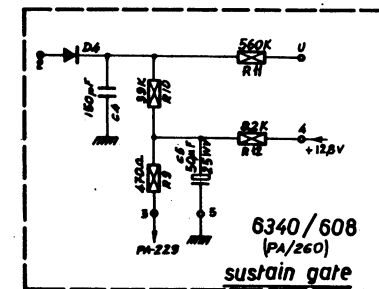
CAPACITORS FROM C15 TO C17

NUMBERS HIGHER THAN THE ABOVE LISTED REFER TO VARIANTS.

DWG 5	CODE	DATE	REVISION						
OF 8	SE-106	10-1-70	OF						

6339/608
(PA/229)





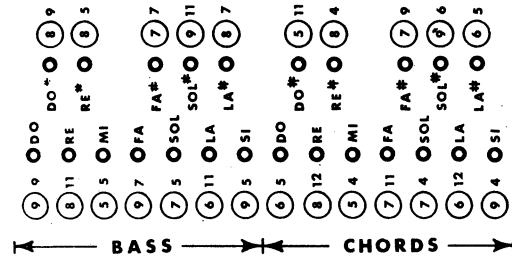
RESISTORS FROM R1 TO R12
CAPACITORS FROM C1 TO C8
DIODES FROM D1 TO D4
TRIMMER FROM VR1 TO VR1
TRANSISTORS FROM Q1 TO Q3
NUMBERS HIGHER THAN THE
ABOVE LISTED REFER TO
VARIANTS

NOTE	FREQUENCY Hz.	$CX - CX_1$ μF
RE ⁰ ₈ D ⁰ ₆	2488	2650
MI ₆ E ₆	2636	2480
FA ₆ F ₆	2794	2340
FA ⁰ ₆ F ⁰ ₆	2960	2210
SOL ₆ G ₆	3136	2080
SOL ⁰ ₆ G ⁰ ₆	3322	1970
LA ₆ A ₆	3520	1855
LA ⁰ ₆ A ⁰ ₆	3729	1750
SI ₆ B ₆	3951	1655
DO ₇ C ₇	4186	1560
DO ⁰ ₇ C ⁰ ₇	4435	1475
RE ₇ D ₇	4698	1395

NOTES:
1) ALL RESISTORS $\frac{1}{8}$ W 10% UNLESS OTHERWISE SPECIFIED.
2) SEE PARTS LIST FOR COMPONENT PART NUMBERS.

SOCKET CONNECTIONS	
PIN	INFORMATION
1	GROUND
2	+15v
3	+12.8v
4	-15v
5	+21v
6	GROUND
7	AUDIO GROUND
8	SIGNAL OUTPUT

REFERENCE TABLE KEY to GENERATOR-BOARD



1. NOTE

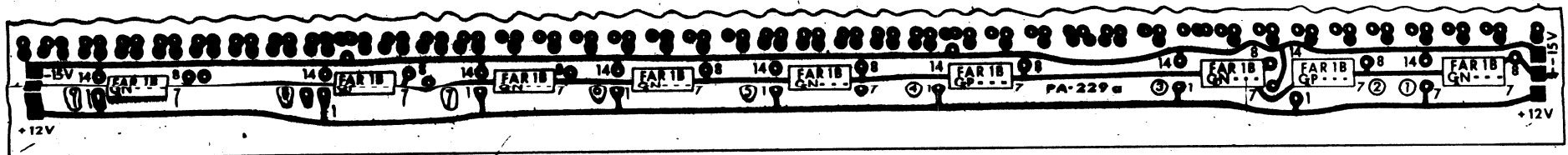
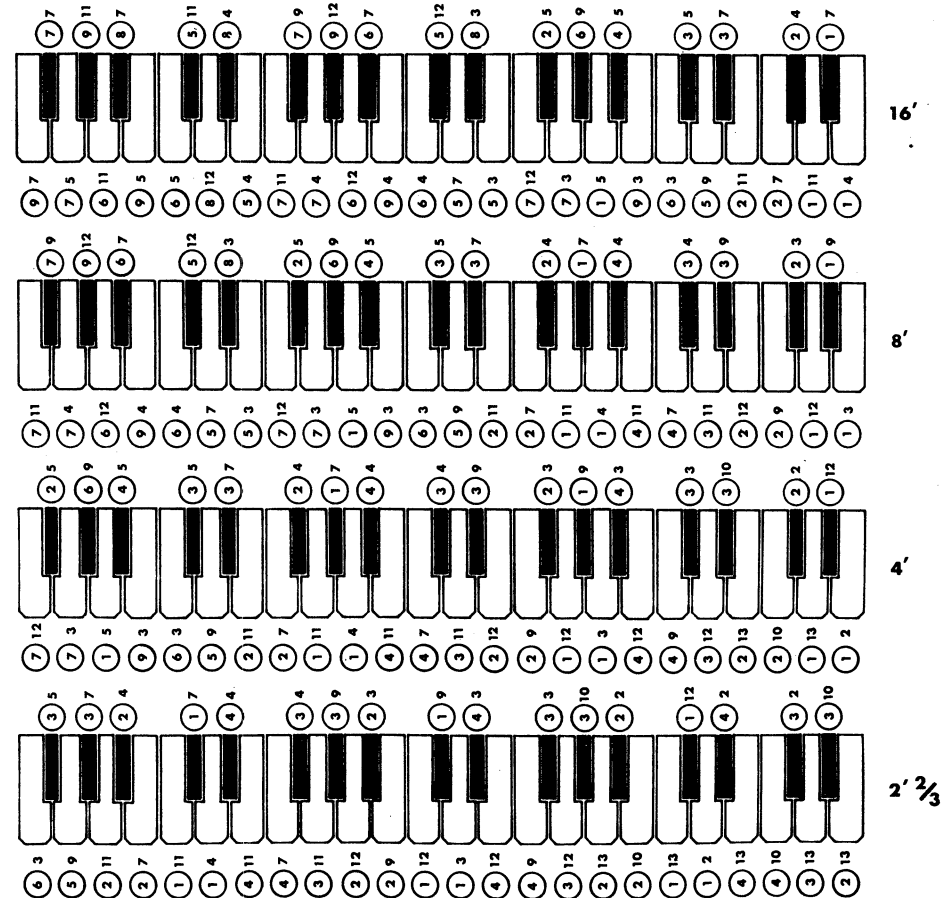
The tone generators referring to the notes of the keyboard are indicated with two numbers marked on the printed circuit PA-229. The circled number indicates the integrated circuit. The second one indicates the pin of the IC.

2. CONNECTION OF THE IC

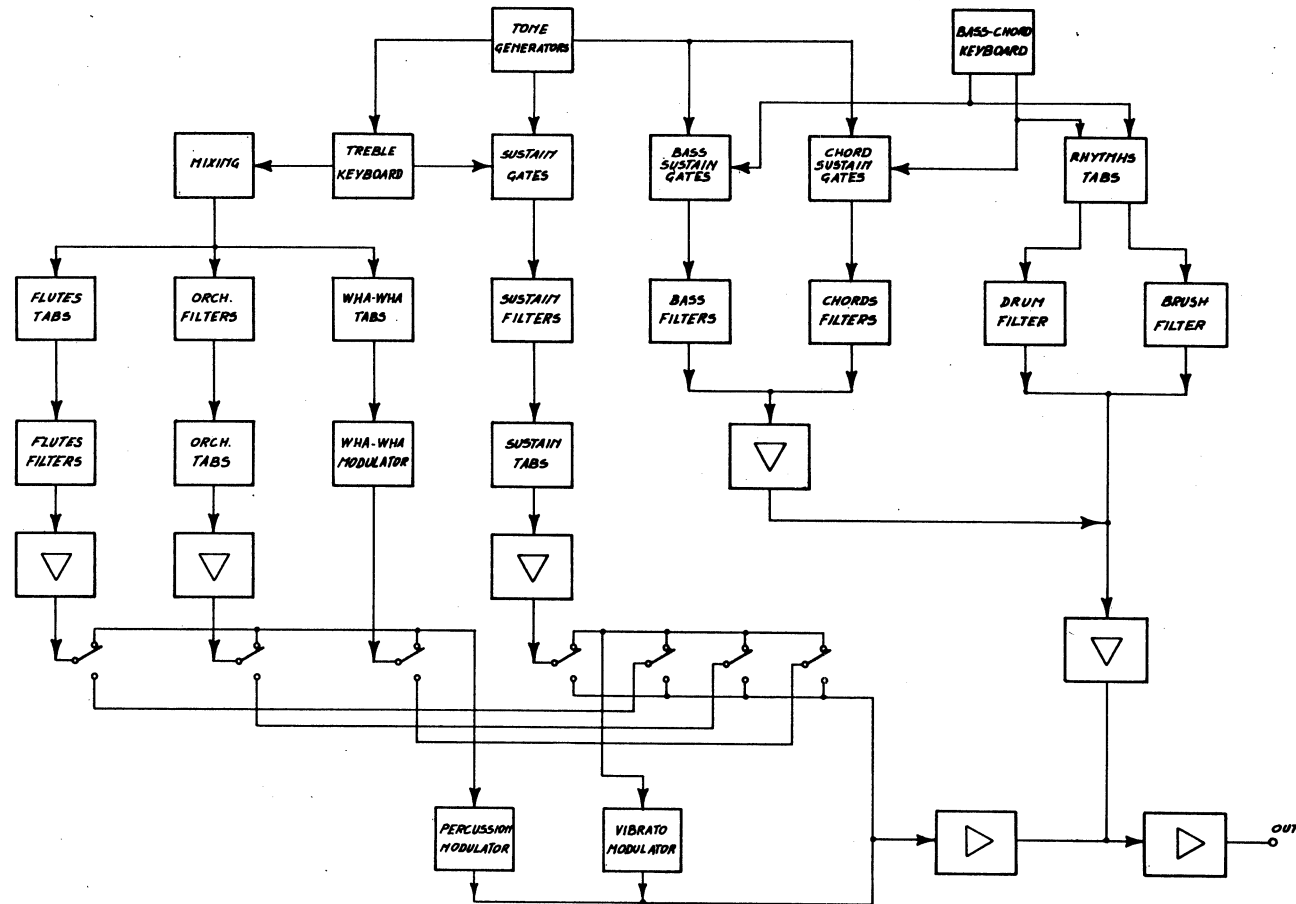
In order to avoid any mistake, make connections taking care that the positions of the pins are not inverted on the printed circuit board PA-229. On the printed board the positions are indicated by numbers 1-7 and 8-14 while the corresponding pins of the IC can be found by placing the IC in such a position that figure reads from left to right GN---



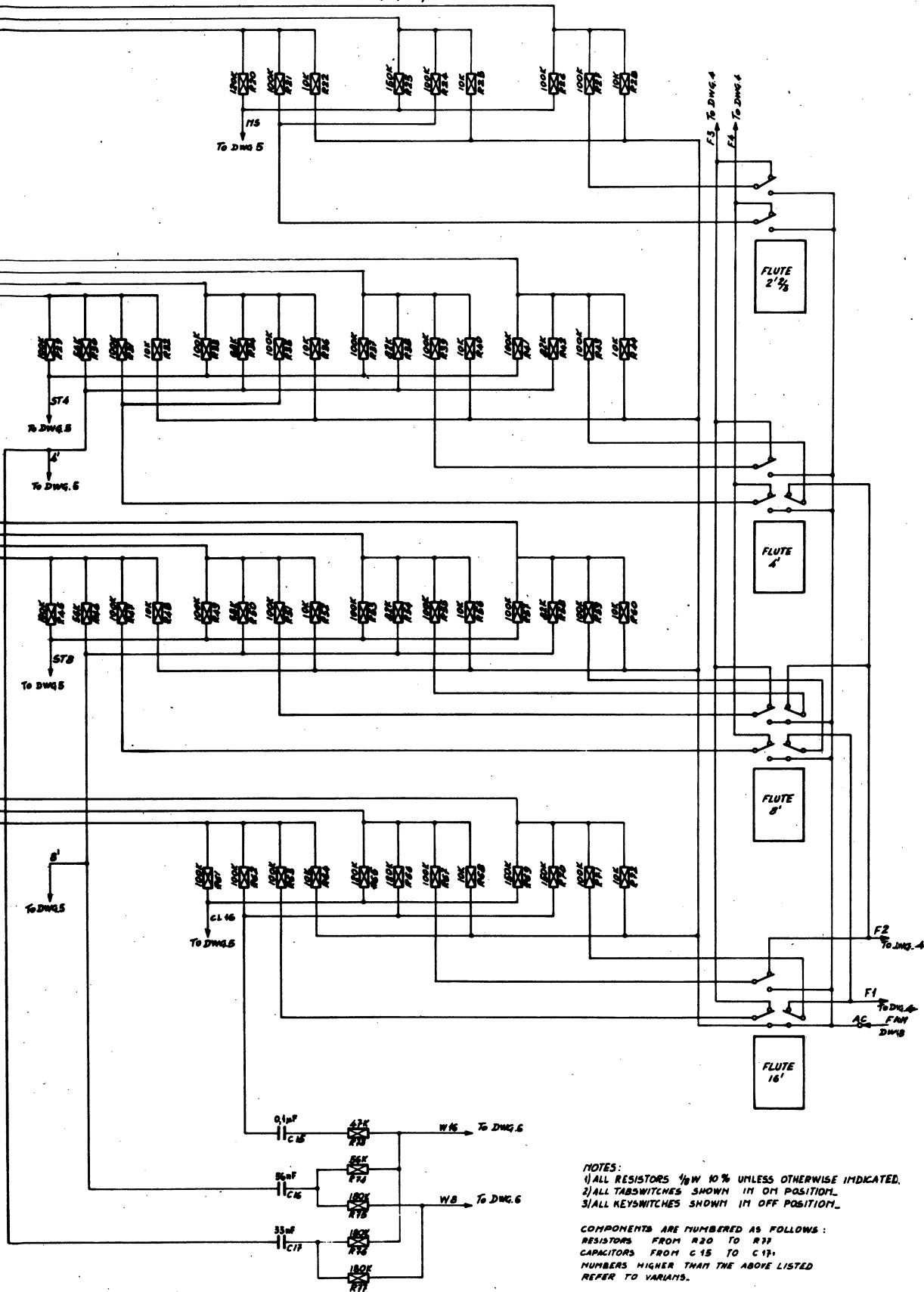
PRINTED CIRCUIT



BLOCK DIAGRAM



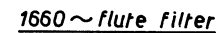
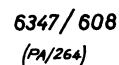
6350/608
(PA/267)



NOTES:
1) ALL RESISTORS 1/8W 10% UNLESS OTHERWISE INDICATED.
2) ALL TABSWITCHES SHOWN IN ON POSITION.
3) ALL KEYSWITCHES SHOWN IN OFF POSITION.

COMPONENTS ARE NUMBERED AS FOLLOWS:
RESISTORS FROM R20 TO R33
CAPACITORS FROM C15 TO C17
NUMBERS HIGHER THAN THE ABOVE LISTED
REFER TO VARIANTS.

DWG	CODE	DATE	REVISION
3	SE-106/C	RS-1-90	
OF 8			OF



6346/608
(PA/263)





$\xrightarrow{U} To IF$
DWG.6

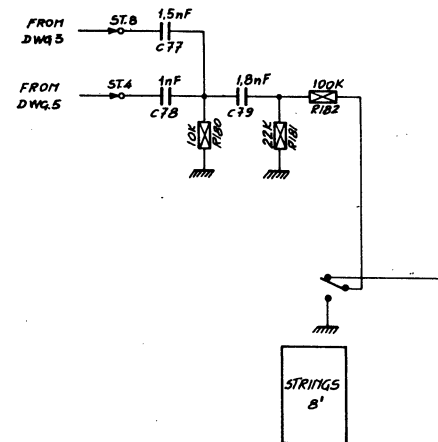
DWG 4

COMPONENTS ARE NUMBERED AS FOLLOWS:
RESISTORS FROM R100 TO R160
CAPACITORS FROM C25 TO C61
TRIMMERS FROM VR3 TO VR6
TRANSISTORS FROM Q5 TO Q12
NUMBERS HIGHER THAN THE ABOVE
LISTED REFER TO VARIANTS.



NOTES:

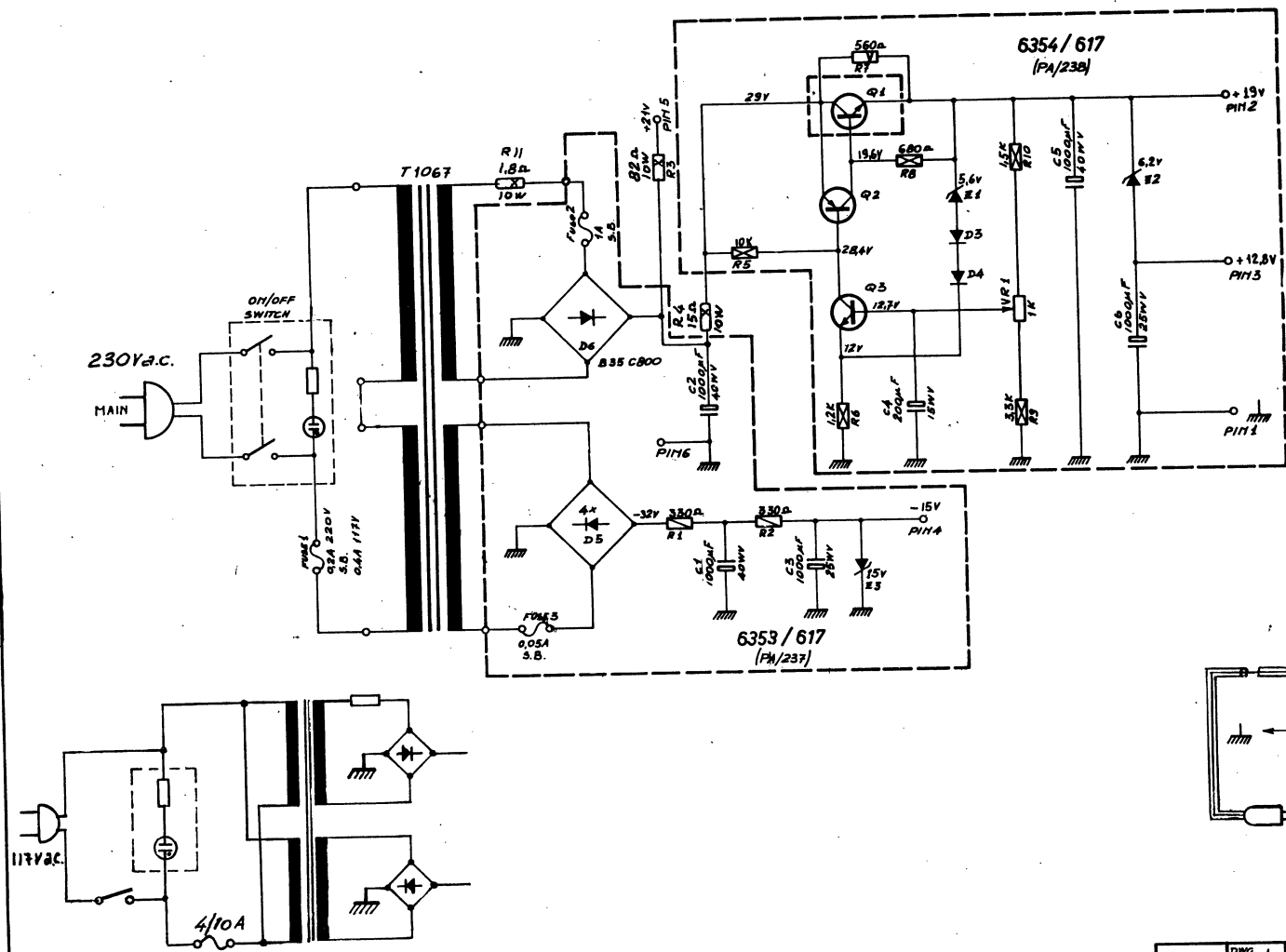
- NOTES:
1) ALL RESISTORS 1/8 W 10 % UNLESS OTHERWISE INDICATED.
2) SEE PARTS LIST FOR COMPONENT PART NUMBERS.

	DWG. 4	CODE SE-106	DATE 26-1-70	REVISION 6102			
	OF 8			OF 27-3-70			

[illegible]

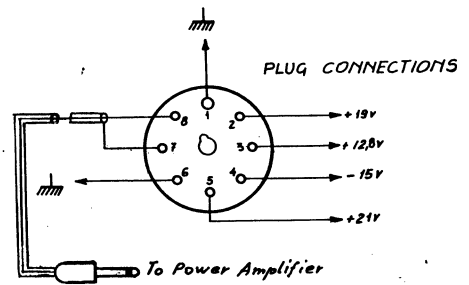
COMPONENTS ARE NUMBERED AS FOLLOWS:
RESISTORS FROM R 170 TO R 210
CAPACITORS FROM C 70 TO C 101
NUMBERS HIGHER THAN THE ABOVE LISTED
REFER TO VARIANTS.

	SWQ. 5	CODE SE-106	DATE 26-1-70	REVISION			
	OF 8	H. 		OF			



TRANSISTORS & DIODES		
POSITION	TYPE	CODE FARFISA
Q1	SGS BD117	W/84
	WESTINGHOUSE 156-043	W/114
Q2	SGS BC143	W/65
Q3	MISTRAL BC207A	W/108
D1-D2-D3-	SGS IX9809	B/34
D4-D5	"	"
D6	GIE BY159/50	Y/22
Z1	MULLARD BZY88/C 5V6	B/38
	IRCI 1N708	B/68
	ITT STANDARD ZF 5.6	B/69
Z2	IRCI 1Z 6.2	B/87
	IRCI 1ZC 6.2	B/88
	ITT STANDARD ZD 6.2	B/89
	MULLARD BZY96C 6V2	B/90
Z3	ITT STANDARD ZF15	B/85
	IRCI 1N965 B	B/86

RESISTORS	
	= 1/8 WATT
	= 1/2 WATT
	= 5 WATT



mod. ATR/3

ID	DWG 1	CODE	DATE	REVISION					
	OF 1	SE/105	25-1-70	OF	27-3-70				

Transicord deluxe

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P I A N O Model 608: 41 notes, from F to A
B U T T O N Model 634: 87 Buttons: DENMARK - SWEDEN
B U T T O N Model 635: 87 Buttons: NORWAY
B U T T O N Model 636: 87 Buttons: FRANCE - HOLLAND
B U T T O N Model 638: 87 Buttons: BELGEN Charleroj and Bruxelles

S P E C I F I C A T I O N S

42 REGISTERS and CONTROLS

BASS - CHORDS SECTION: 120 Buttons
 2 rows of Basses
 4 rows of Chords

TREBLE REGISTERS

FLUTES 16' - 8' - 4' - 2/
 Vibrato On/Off
 Percussion On/Off

ORCHESTRA Clarinet 16' - Clarinet 8' - Piccolo 4'
 Nasard 2 / - Oboe 8' - Trumpet 8' - String 8'
 Vibrato On/Off - Percussion On/Off

SUSTAIN Celesta 8' - Clavicord 8' - Kinura 8'
 Vibrato On/Off

WHA - WHA 16' - 8' - Vibrato On/Off
 Percussion On/Off

General Vibrato Slow/Fast Control Tab

General Percussion Long/Short Control Tab

General Percussion p/f (piano/forte) Control Tab

BASS - CHORDS SECTION

Basses Soft/Sharp Control Tab

Chords Soft/Sharp Control Tab

Bass Sustain On/Off Control Tab

Chords Sustain On/Off Control Tab

Bass Chords p/f (piano/forte) Control Tab

Cancel Tab for Bass and Chords

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RHYTHMS ON CHORDS SECTION

- Drum on Basses Control Register
- Brush on Chords Control Register
- Brush on Basses Control Register
- Drum on Basses and Brush on Chords Control Register
- Drum on Brush on Basses and Brush on Chords Control Register
- Cancel Control Register for all Rhythms

Rotating Control for general volume of Basses, Chords and Rhythms

OTHER GENERAL CONTROLS

- General Volume Expression Control by use of the Bellows
- Socket for Headphones
- Socket for Connection of the Slalom Pedal
- Socket for Connection of the AT R/3 Power Supply Box

Dimensions: cm. 49 x 21 x 40

Weight: kg. 11,5

Finish: Black

Transicord deluxe

A D J U S T M E N T

VR.1 - OSCILLATORS TUNING (35) on PA 234 = Tone Generator Board (34) Fig.7

Oscillators tuning is accomplished by the 12 potentiometers marked VR.1. Each potentiometer tunes all the notes of the same name throughout the organ, whichever tabswitch, octave, or keyboard be used. Tuning can be performed in any of the usual ways, such as setting A to the correct pitch by comparison to another instrument, or tuning fork, and then tuning the remaining notes by fifth and fourth, or using one of the many accessories such the "Strobotuner", or by comparison with another correctly tuned instrument or a set of 12 tuning forks.

VR.2 - VR.6 - FLUTE FILTERS TUNE on PA 264 = Board (19) Fig. 2 - 4 - 11 - 4A

Readjustment should not be necessary unless filter components are replaced; to adjust operate as follows: Connect an A.C. voltmeter or, preferably, an oscilloscope to the output jack of the organ, or, alternatively, to the speaker terminals of the power amplifier. Using only one flute tabswitch at a time and using only the even footages (16', 8', 4') play the note G[#] whose frequency is the one indicated beside the filter interested in the schematic diagram, and turn the corresponding adjusting trimmer for maximum output, or cleanest waveform on the oscilloscope.

VR.10 - VR.11 - VIBRATO ADJ. on PA 268 Board (33) Fig. 6 - 6A

This adjustment is very critical and should be performed only if absolutely necessary. Operate as follows: Set the three Vibrato tabswitches in the "ON" position, and play a chord in the central octave of the Keyboard with 8', 4' and Vibrato Tabswitches on the U.M. flute family included. Set VR.11 in its approximate central position, and turn VR.10 very slowly until some modulation is heard. At this point reduce modulation depth via VR.11 at the minimum which can be heard, and readjust VR.10 for the cleanest modulation. Eventually repeat until no further improvement is obtained, always operating on VR.10 very slowly, since this adjustment is very critical, and correct in a very narrow tolerance. Now increase modulation depth via VR.11 up to the maximum clean modulation which can be obtained, just before "popping" occurs.

VR.15 - BASS SOFT FILTER ADJ. on PA 265 = Board (32) Fig. 6 - 6A

Readjustment should not be necessary unless filter components are replaced; to adjust operate as follows; Connect an A.C. voltmeter or, preferably, an oscilloscope to the output jack of the organ, or, alternatively to the speaker terminals of the power amplifier. Play "G" on the bass section and turn VR.15 for maximum output, or cleanest waveform on the oscilloscope.

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VR 16 - BASS SHARP FILTER ADJUSTMENT on PA 265 = Board (32) Fig. 6 - 6A

This trimmer controls the timbre when using "BASS SHARP" tabswitch, and can be set upon customer preference. Factory tuning is done centering the corresponding filter on 400 Hz.

VR.20 - BRUSH LEVEL ADJ. on PA 268 = Board (33) Fig. 6 - 6A

Using "BASS SOFT", "CHORD SOFT", "DRUM BASS" and "BRUSH CHORDS" tabswitches, and alternating between a bass note and a chord note on the bass section, adjust VR.20 for adequate balance of the rhythm section.

VR.21 - DRUM LENGTH ADJ. on PA 268 = Board (33) Fig. 6 - 6A

Put "BASS CANCEL" and "DRUM BASS" and "BRUSH CHORDS" tabswitches on and hitting repeatedly a note on the Bass section, adjust VR.21 for adequate length of the note heard, just below the position above which the note becomes boomy.

VR.22 - SWELL BELLOW MINIMUM LEVEL ADJ. on PA 265 = Board (32) Fig. 6 - 6A

Depending upon customer preference adjust this control for required level at completely closed bellow. Instrument is factory adjusted with VR.22 at the center of its rotation.

VR.23 - + 5,6 VOLT ADJ. "ANTICLICK" on PA 265 = Board (32) Fig. 6 - 6A

Adjust for proper voltage on + 5,6 test point (pin 15 of PA 265) using an ART 3 power supply whose operation and adjustment is known to be correct, or the customer's own unit.

Transicord deluxe

HOW TO OPEN THE INSTRUMENT FOR SERVICE ACCESS

(Any work inside the organ shall be performed by specialized technicians)

1. To open the instrument as shown in fig. 1.2.3.4.5.6.7.8. and to remove the Treble & Bass Case:

- 1.1 - Unloose the eight screws (11 in Fig.1.4.16) and remove both Treble (1) and Bass Case (2).
- 1.2 - Disconnect the Expression and WhaWha connector (44/24 in Fig.2.3.4.8.9) and Wiring connectors (22/23 in Fig.2.3.4)

Note! When removing the Treble & Bass Case the instrument may still be played and circuitry checked, provided that all Duo-Tyne connectors (22/23)&(44/24) are properly connected.

If Duo-Tyne connectors need be removed you may only play the Keyboard.

Operations # 1 allow reaching the components or performing adjustments as follows:

- a) Tuning Trimmers VR 1 (35 in Fig.7) located on Tone generator boards PA 234.
- b) Printed Circuit boards PA 261 and PA 261-1 and their treble Sustain modules PA 260 (38-39 in Fig.8.12).
- c) Printed Circuit board PA 263-1 (18 in Fig.2.4.10)
- d) Printed Circuit board PA 264 (19 in Fig.2.4.11)
- e) Flute Filters adjust. VR 3. VR 4. VR 5. VR 6 (Fig. 2.4.10.11)
- f) Printed Circuit board PA 266 (13 in Fig.2.4.13)
- g) Printed Circuit board PA 267 (17 in Fig.2.4.14)
- h) Printed Circuit board PA 271 (21 in Fig.2.4.15)
- i) Bass Case Wiring Duo-Tyne connectors (22/23 in Fig.2.3.4)
- l) Expression and Wha-Wha device (16 in Fig.2.3)
- m) Expression and Wha-Wha device connector (44/24 in Fig.2.3.4.8.9)
- n) Printed Circuit board PA 261-2 with Sustain modules PA 260-1 and PA 260-2 (25-26 in Fig.3.12)
- o) Printed Circuit board PA 275 or PA 288 or PA 289 (27 in Fig.3)
- p) Bellows Fastener (15 in Fig.2.3)
- q) Bellows (13 in Fig.1.3.16)

2. To open the instrument as shown in Fig.5 (separation of Treble & Bass Case not needed)

- 2.1 - Unloose both Grille holding screws (10 in Fig.1) to reach:

- a) Register Tabs (4 in Fig.1.2.5.6.16)
- b) Power octal socket (7 in Fig.1.5.6.16)
- c) Headphone Jack (8 in Fig.1.5.6.16)
- d) Slalom Jack (9 in Fig.1.5.6.16)

Transicord deluxe

3. To open the instrument as shown in Fig. 6.6A

- 3.1 - Unloose both Grille holding screws (10 in Fig.1)
- 3.2 - Unloose the tab metal frame holding screws (30 in Fig.5)
- 3.3 - Tilt the tab metal frame (29 in Fig.5.6)

Operations #3 allow reaching components or performing adjustments as follows:

- a) Tabswitch Board (4 in Fig.1.2.5.6.6A.16)
- b) Power octal socket (7 in Fig.1.5.6.16)
- c) Headphone Jack (8 in Fig.1.5.6.16)
- d) Slalom Jack (9 in Fig.1.5.6.16)
- e) Printed Circuit board PA 265 (32 in Fig.6.6A)
- f) Bass Filters adjust. VR 15, VR 16 (Fig.6.6A)
- g) Output Level adjust. VR 22
- h) Anticlick adjust. VR 23
- i) Printed Circuit board PA 268 (33 in Fig.6.6A)
- l) Vibrato Bias adjust. VR 10
- m) Vibrato Depth adjust. VR 11
- n) Brush Level adjust. VR 20
- o) Drum Level adjust. VR 21

4. To open the instrument as shown in Fig. 8.9.17.18

(separation of Treble & Bass Case not needed)

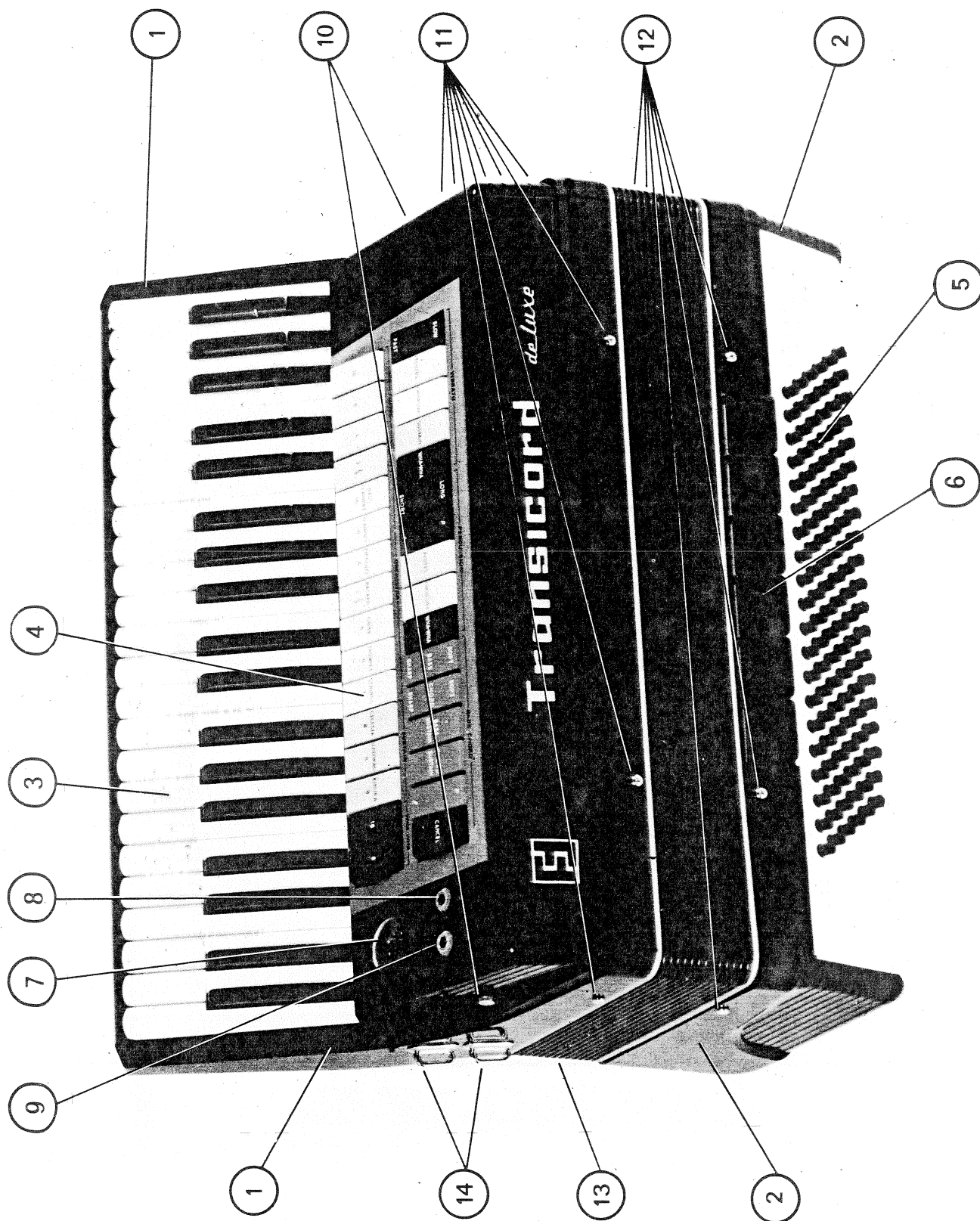
4.1 - Remove Treble Case back cover (37 in Fig.7) to reach:

- a) Treble Keyswitches (48)
- b) Contact Actuator balance springs (49)
- c) Lowerside of the Treble contact board PA 229 or PA 287 (46 in Fig.9.17.18)

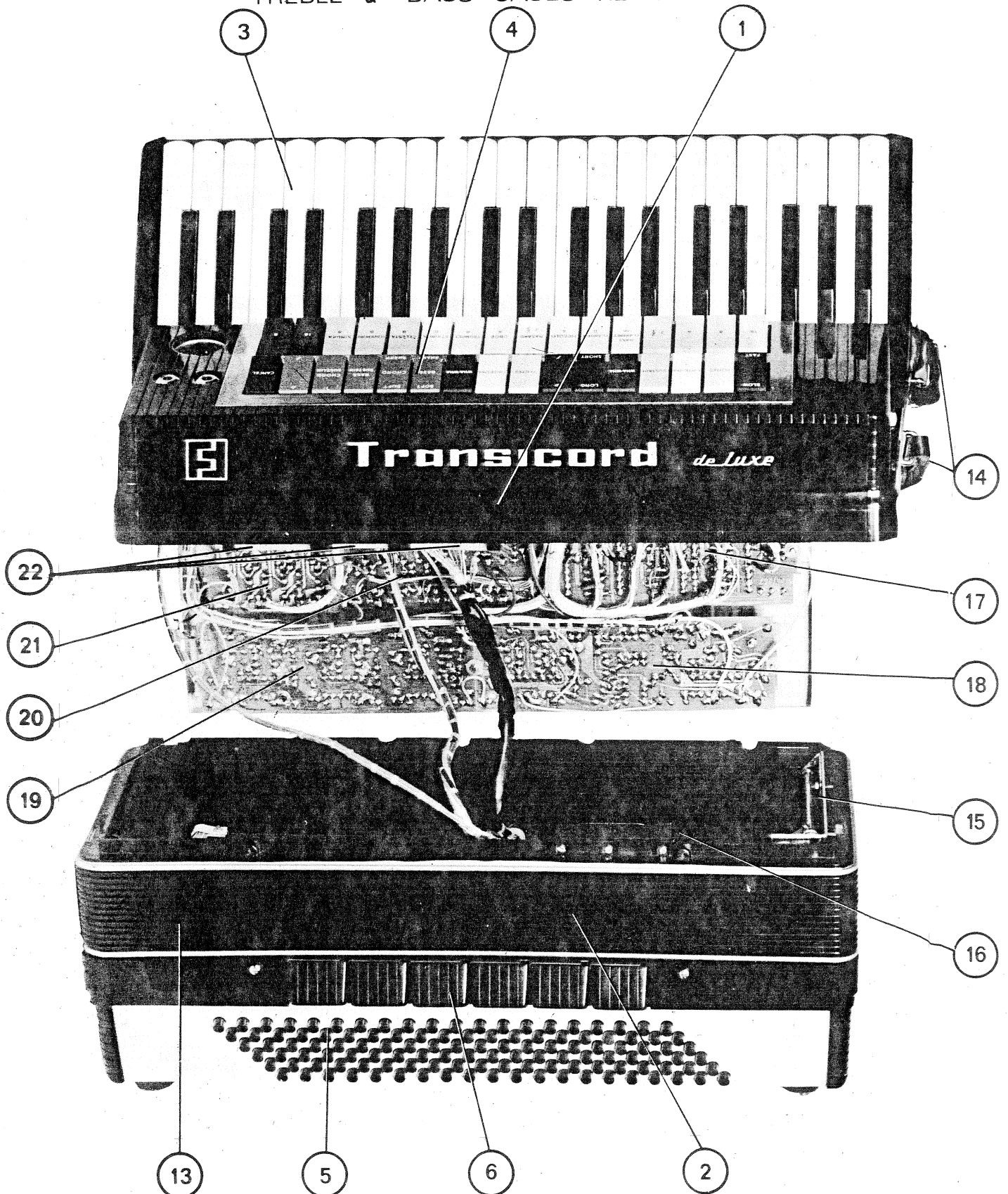
4.2 - Remove screws (42) holding the Treble Keyswitch metal frame (41) and tilt the same to reach:

- a) Printed Circuit board PA 229 or PA 287 (46)
- b) I.C. Dividers (47)
- c) Key's or Button's Lever (45)

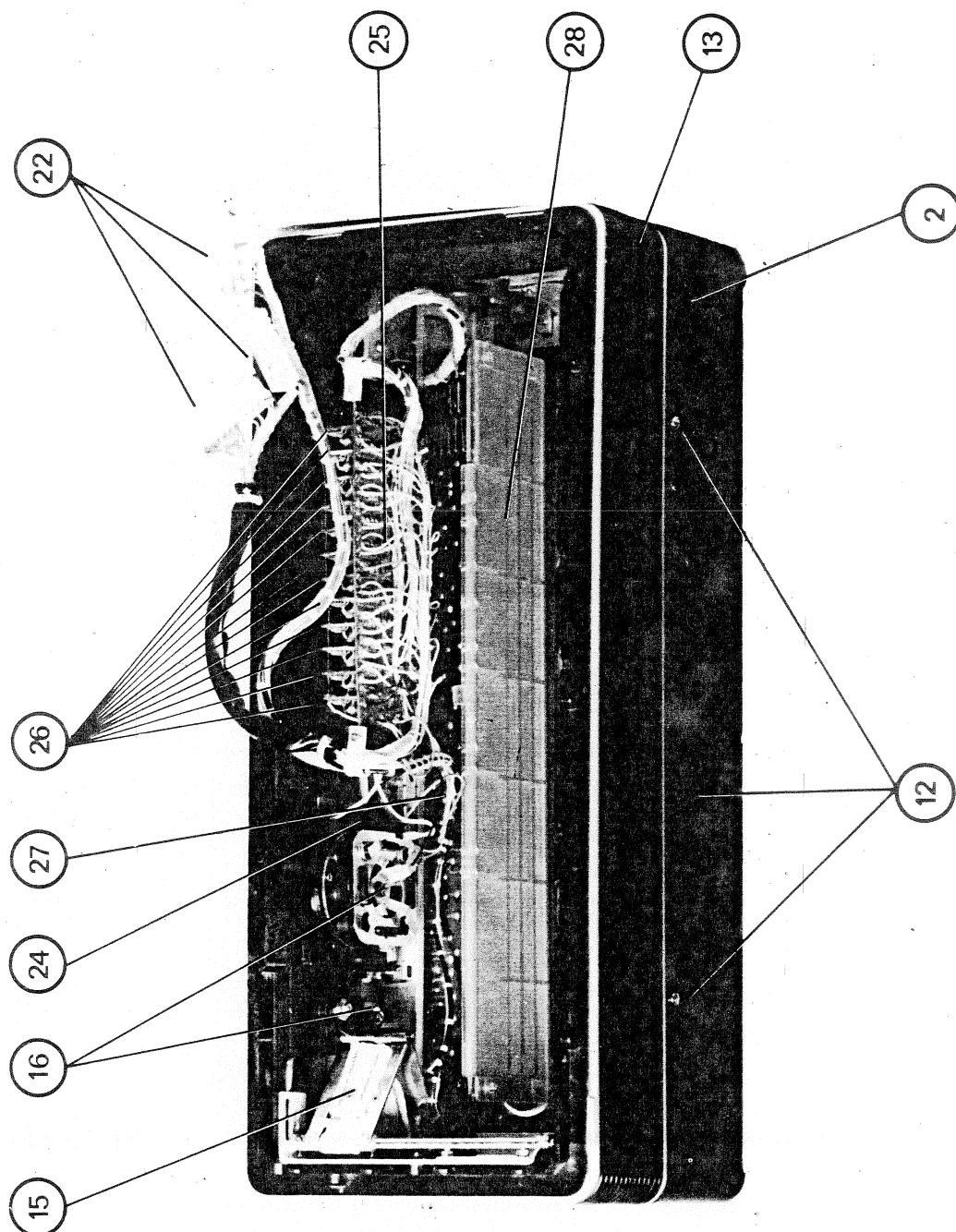
FRONT VIEW



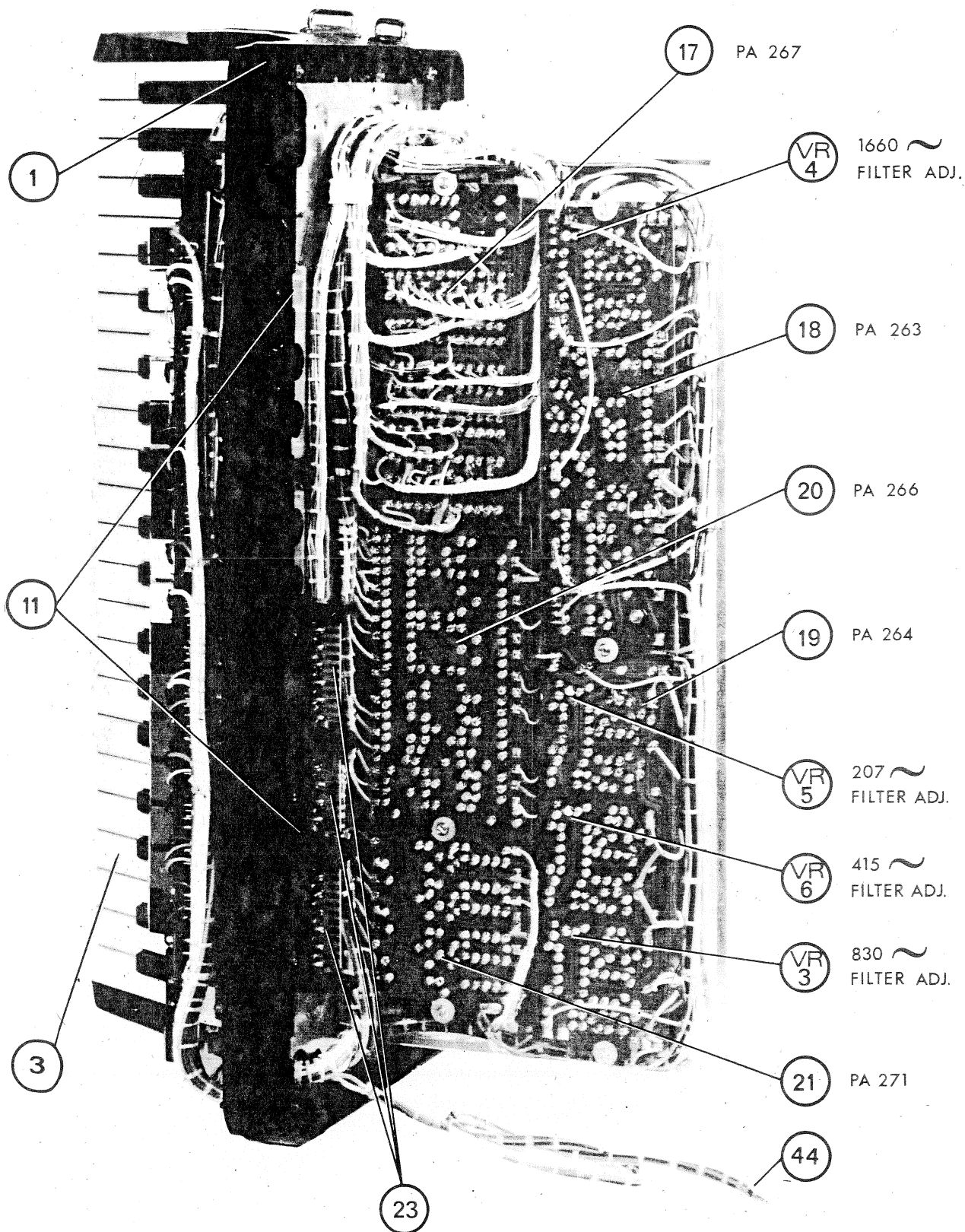
TREBLE & BASS CASES REMOVED



BASS CASE (Inside view)

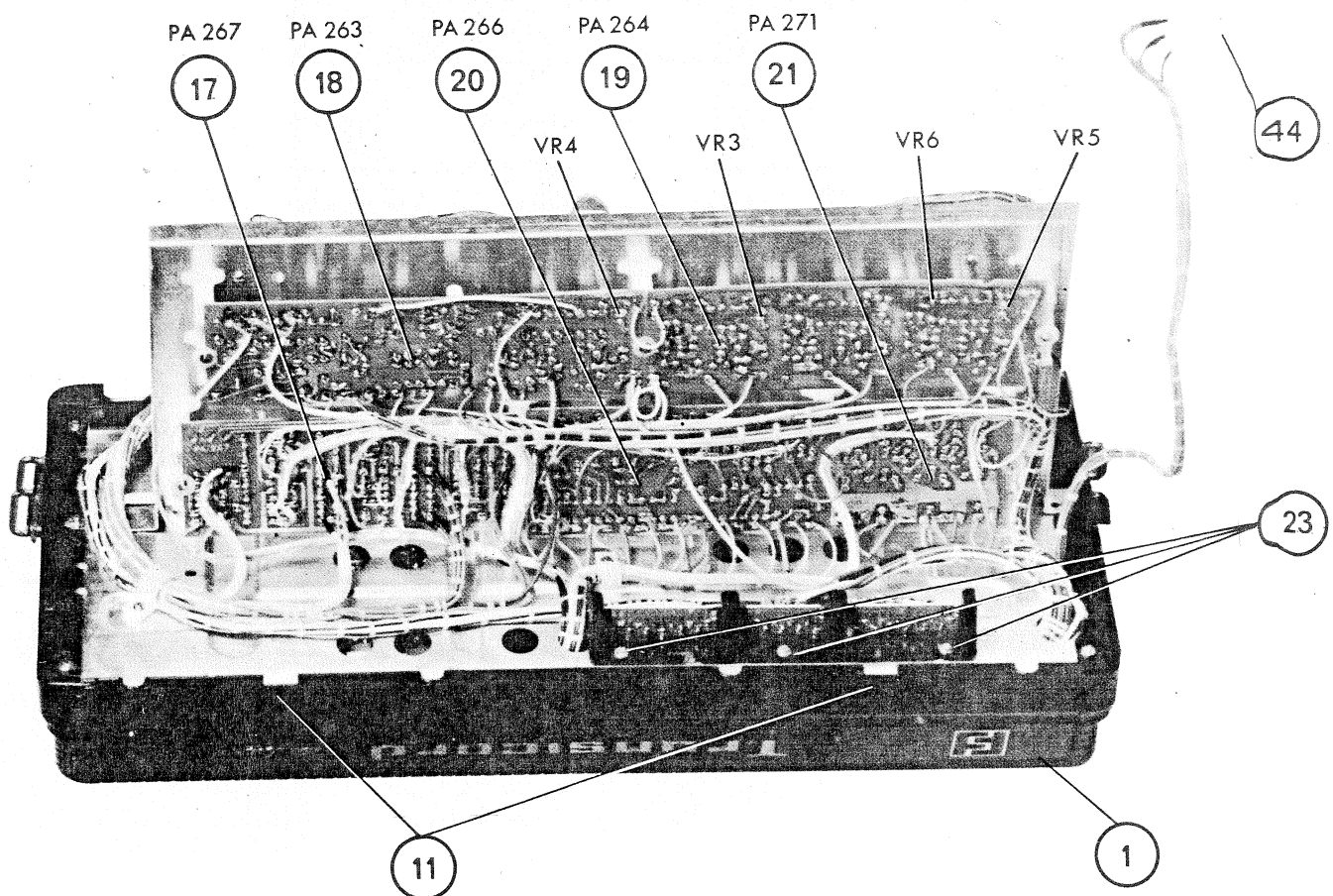
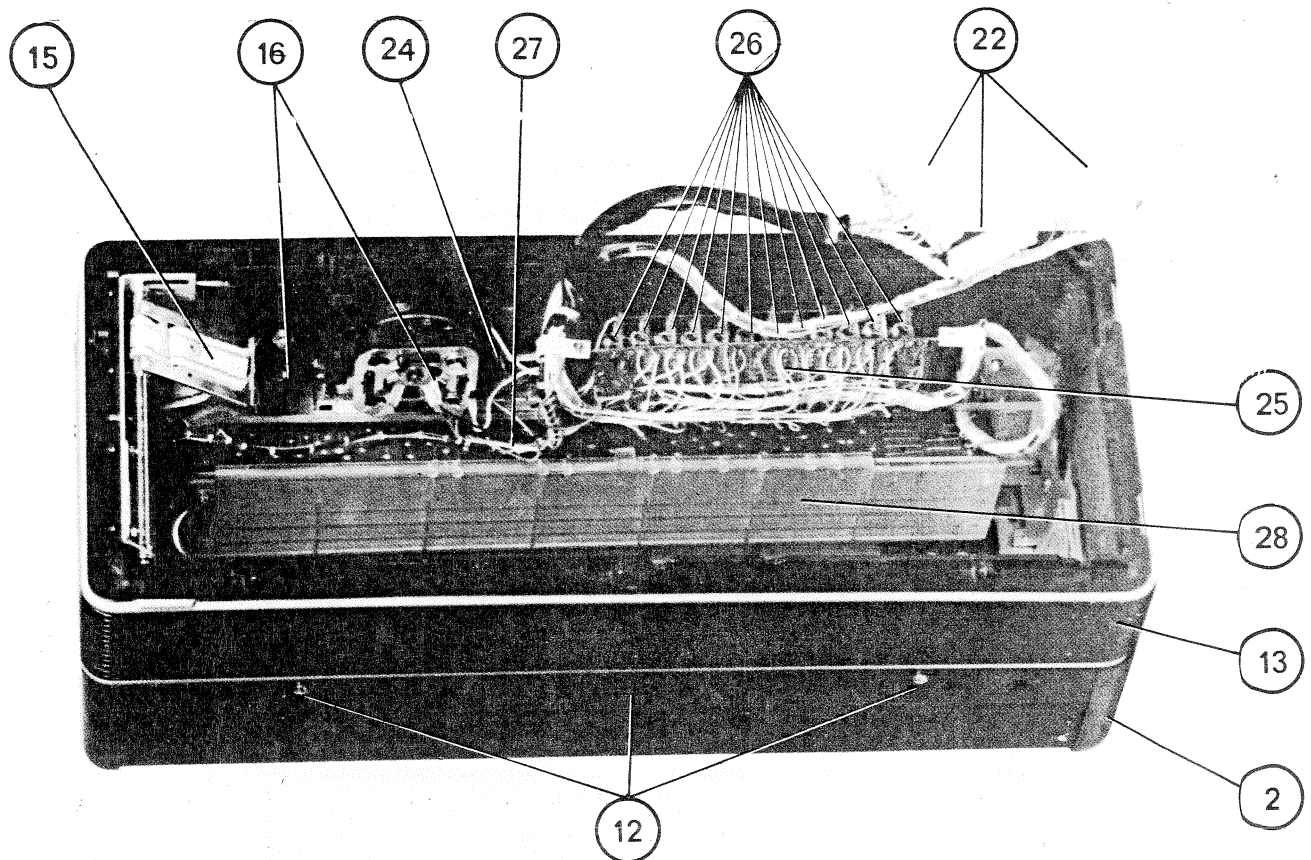


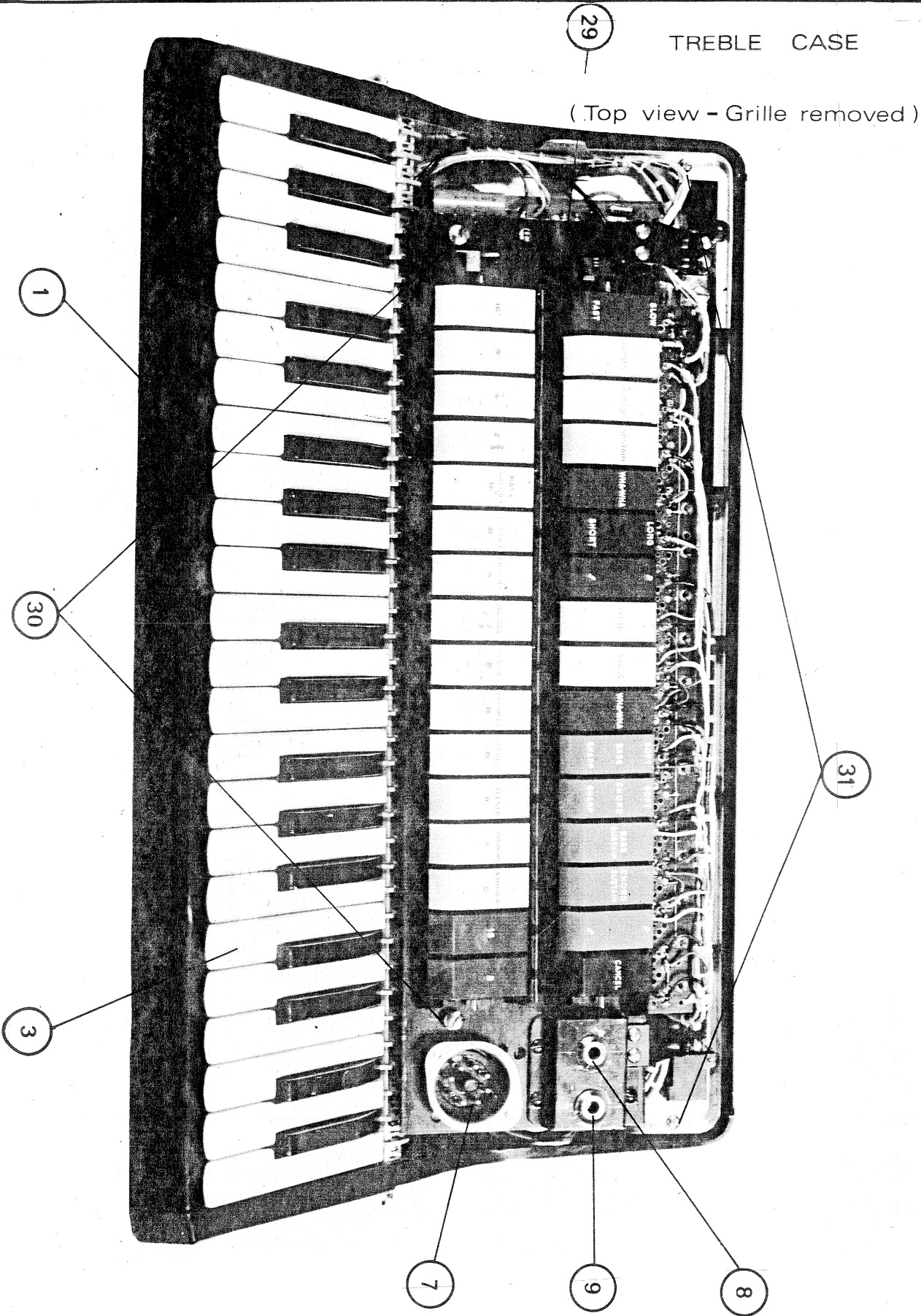
TREBLE CASE (Top view)

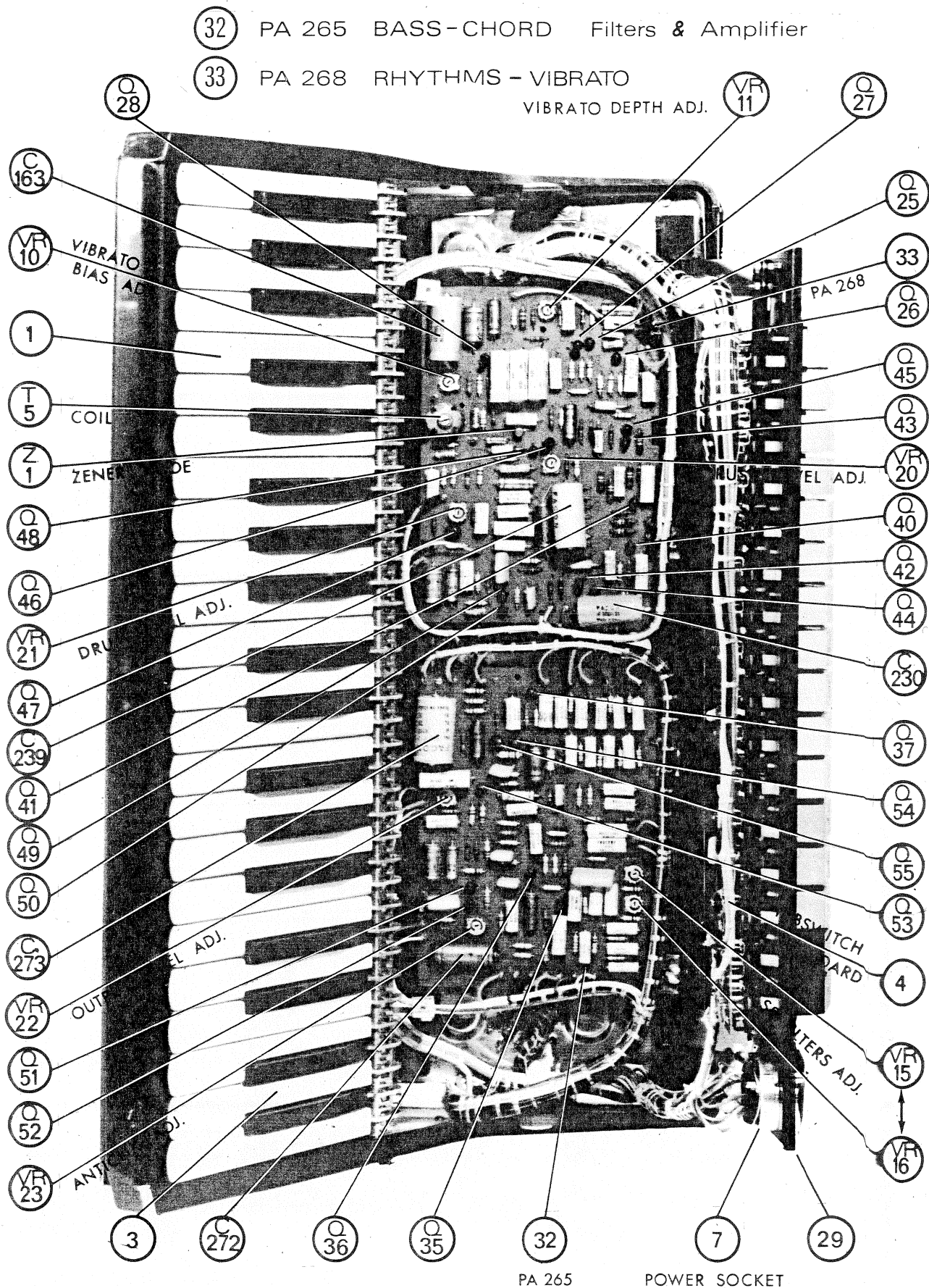


Transicord deluxe (only for Serial No A/6114) FIG. 3A - 4A

BASS & TREBLE CASES

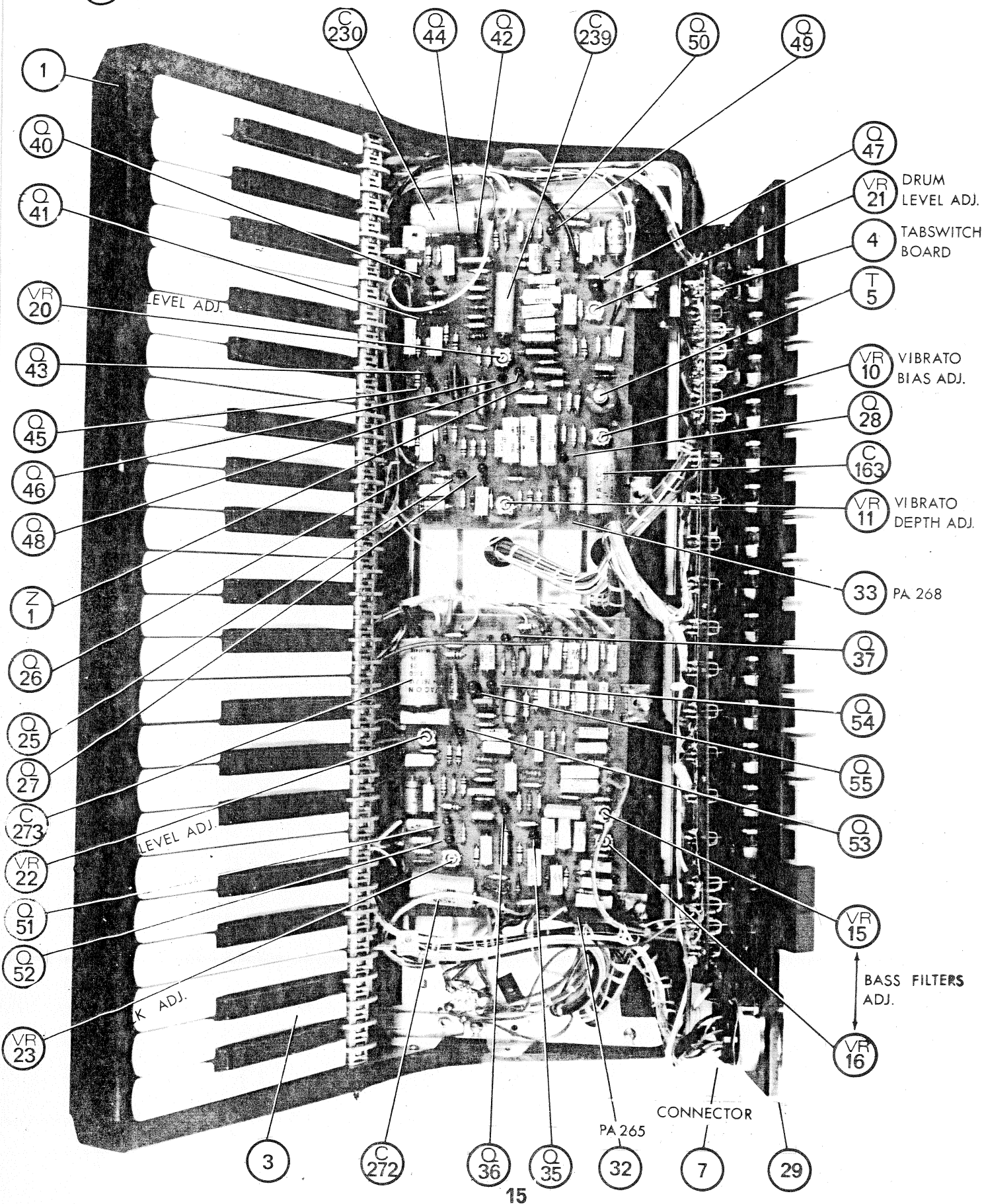






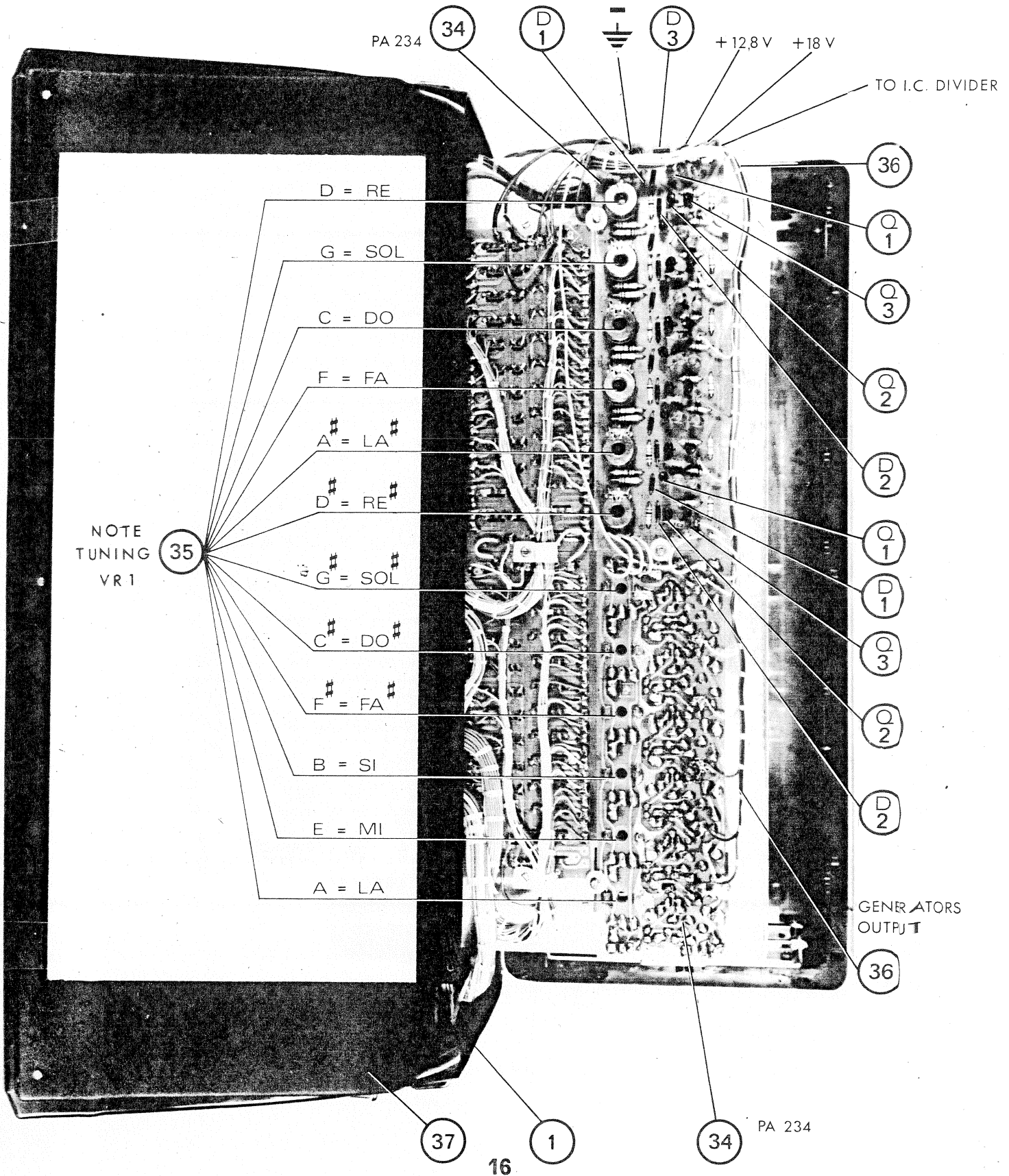
33
32

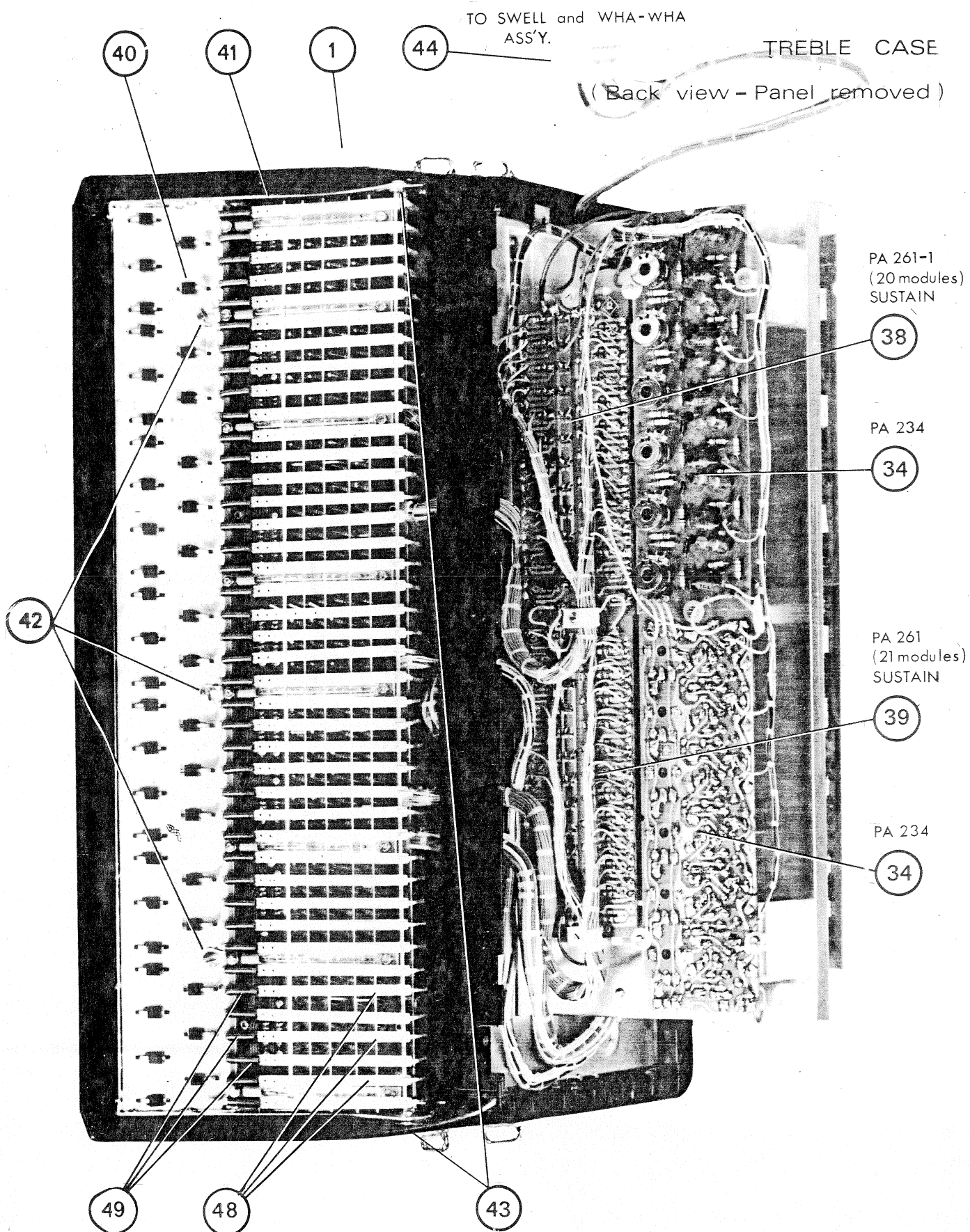
PA 268 = RHYTHMS & VIBRATO
PA 265 = BASS-CHORD FILTERS & AMPLIFIERS



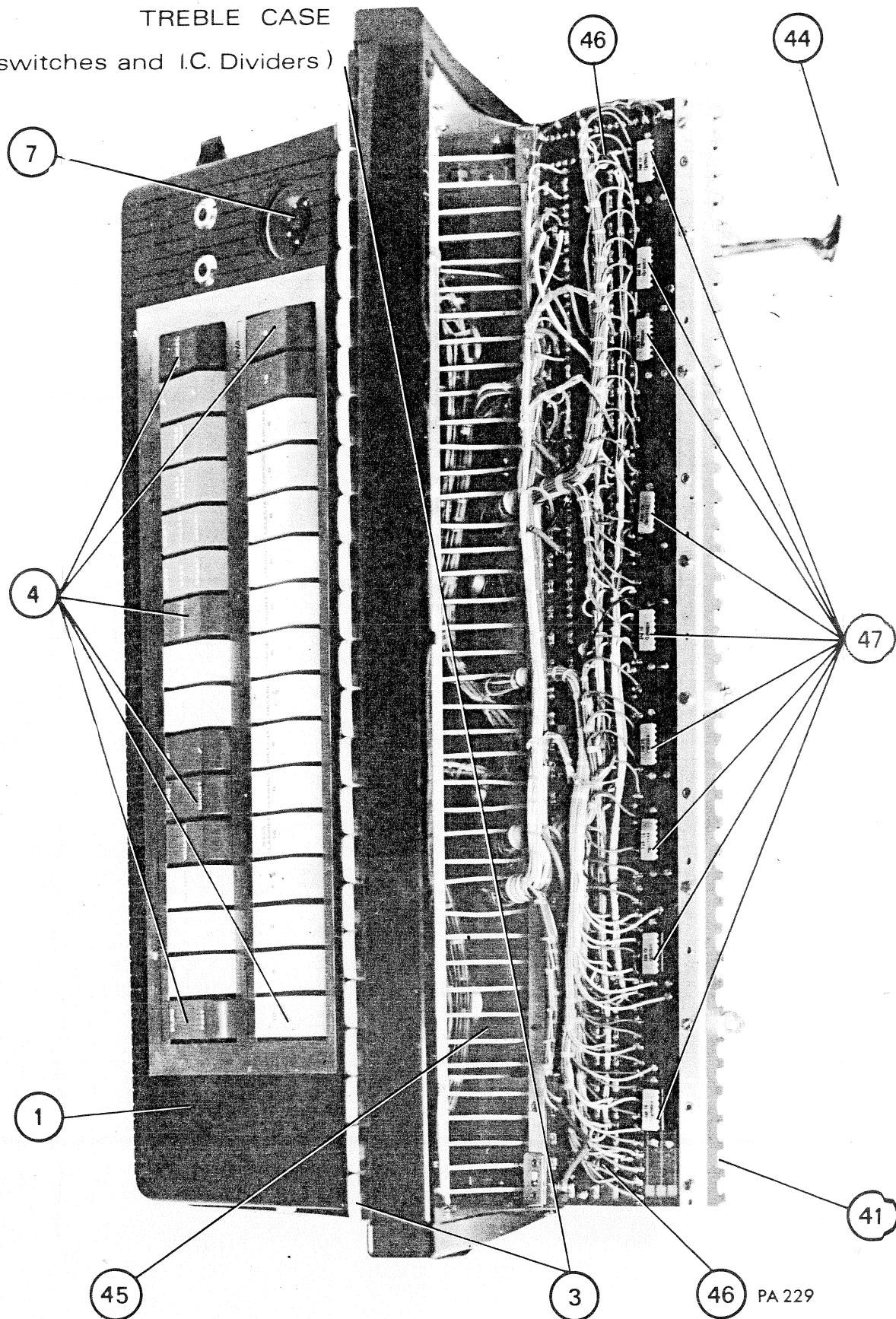
TREBLE CASS (Back view)

(34) PA 234 - Generator Boards

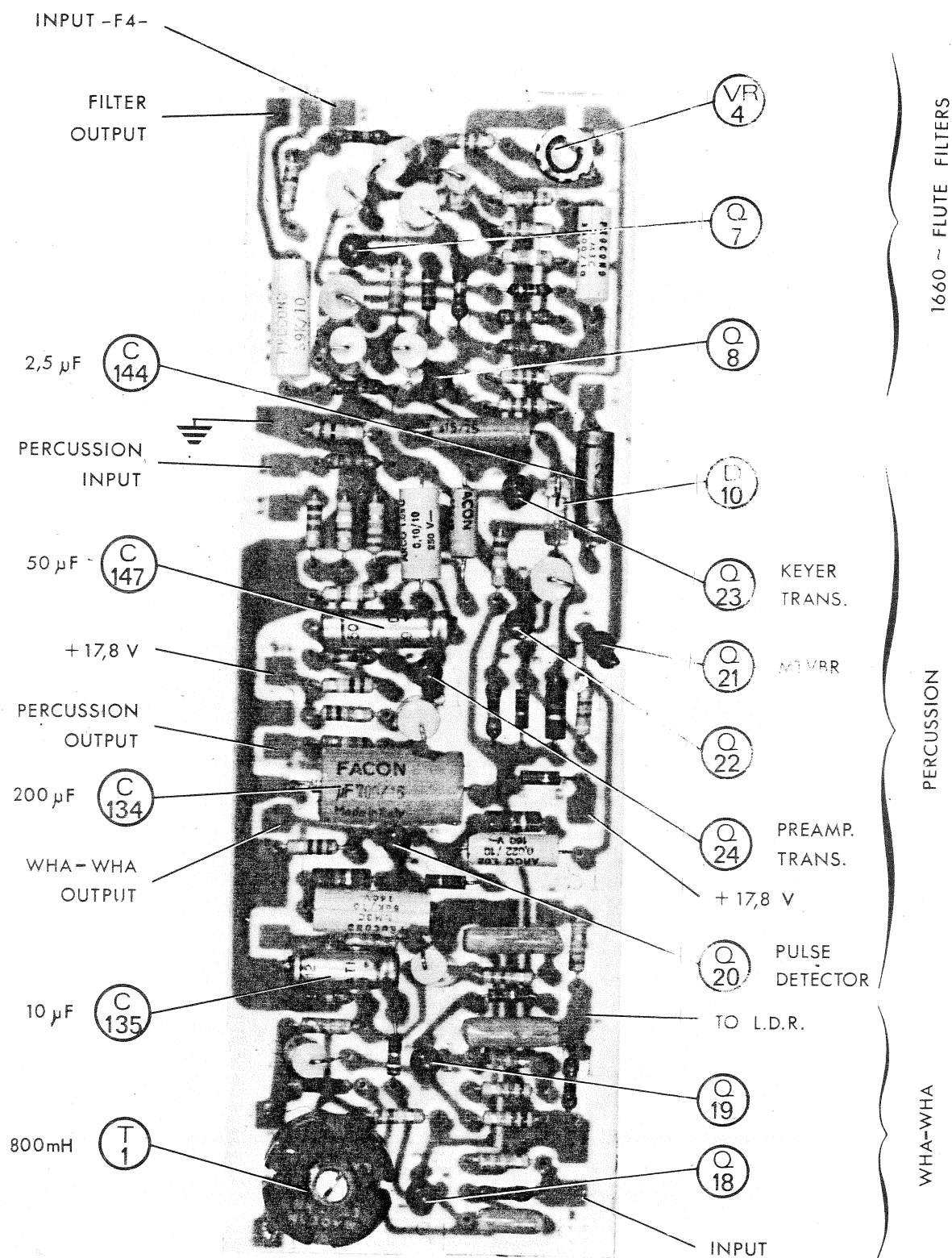




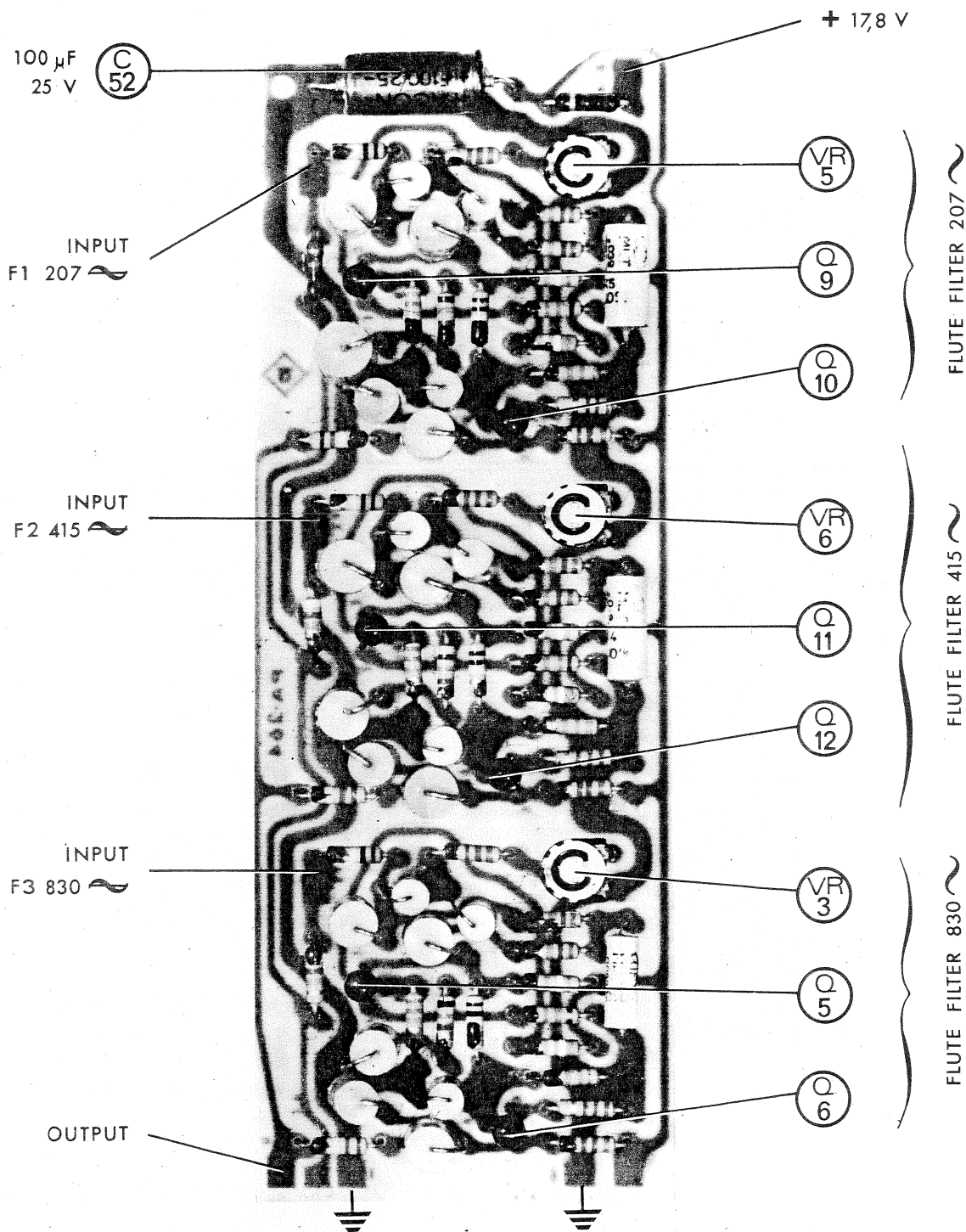
TREBLE CASE
(Keyswitches and I.C. Dividers)



FLUTE FILTER - PERCUSSION - WHA WHA = PA 263-1 (18)



PA 264 = FLUTE FILTERS



(39) PA 261 : TREBLE SUSTAIN

(38) PA 261-1 : TREBLE SUSTAIN

(25) PA 261-2 : BASS CHORDS SUSTAIN

wiht 21 : PA 260 = TREBLE SUSTAIN MODULES

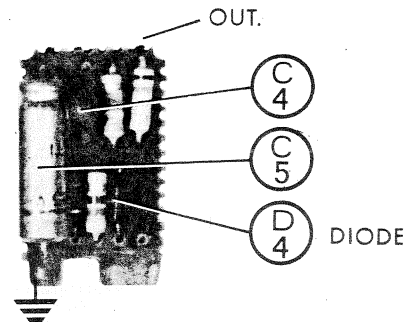
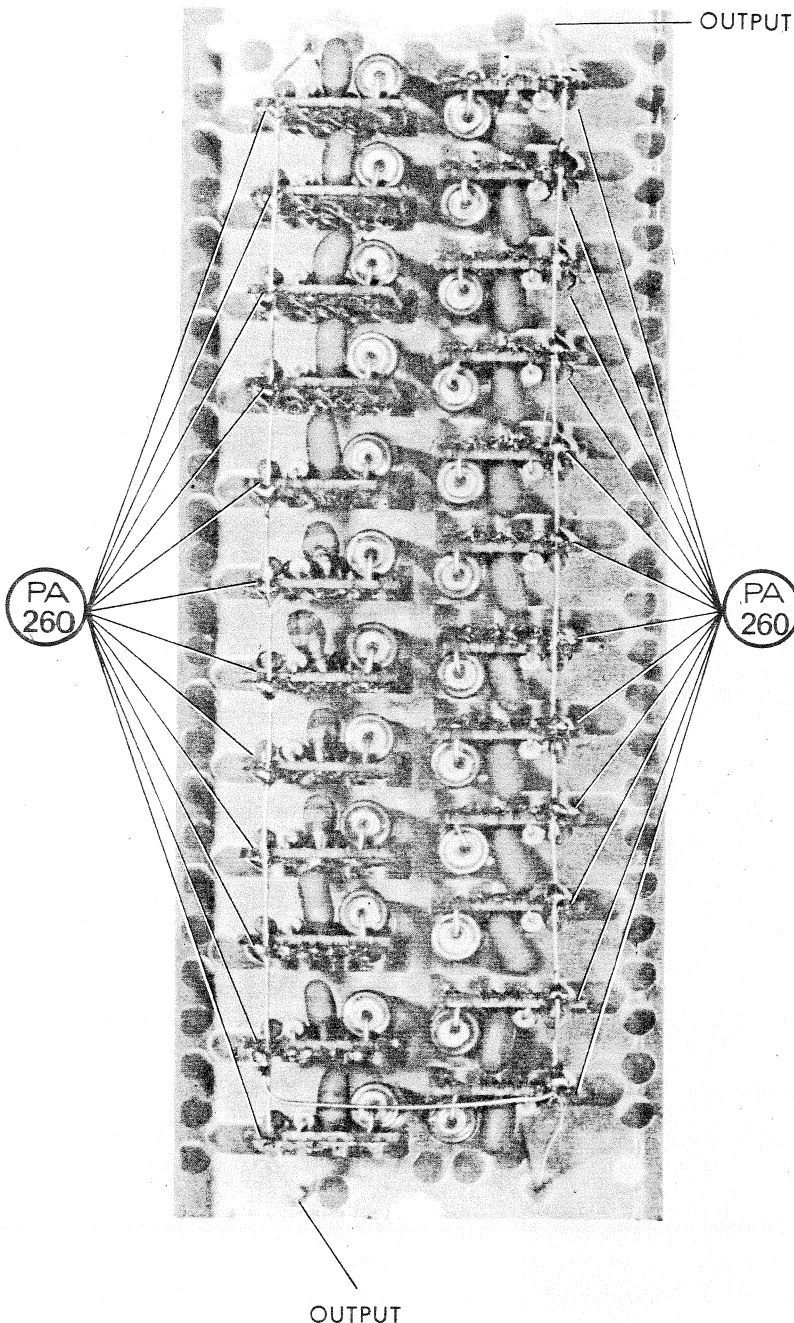
wiht 20 : PA 260 = " " "

wiht 12 : PA 260-1 = BASS " "

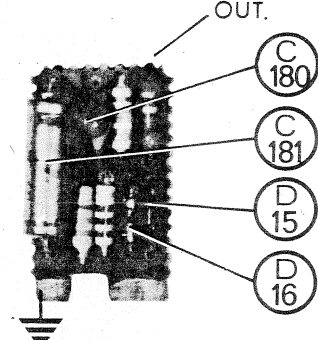
wiht 12 : PA 260-2 = CHORD " "

PA 261: SUSTAIN BOARD BASE

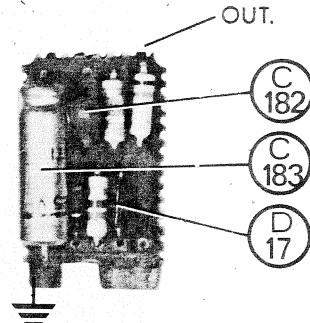
PA 260 : TREBLE SUSTAIN MODULE



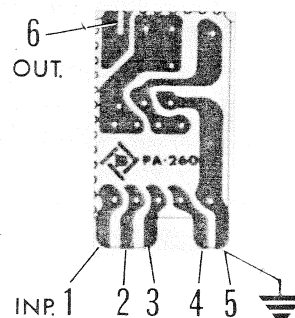
PA 260-1: BASS SUSTAIN MODULE



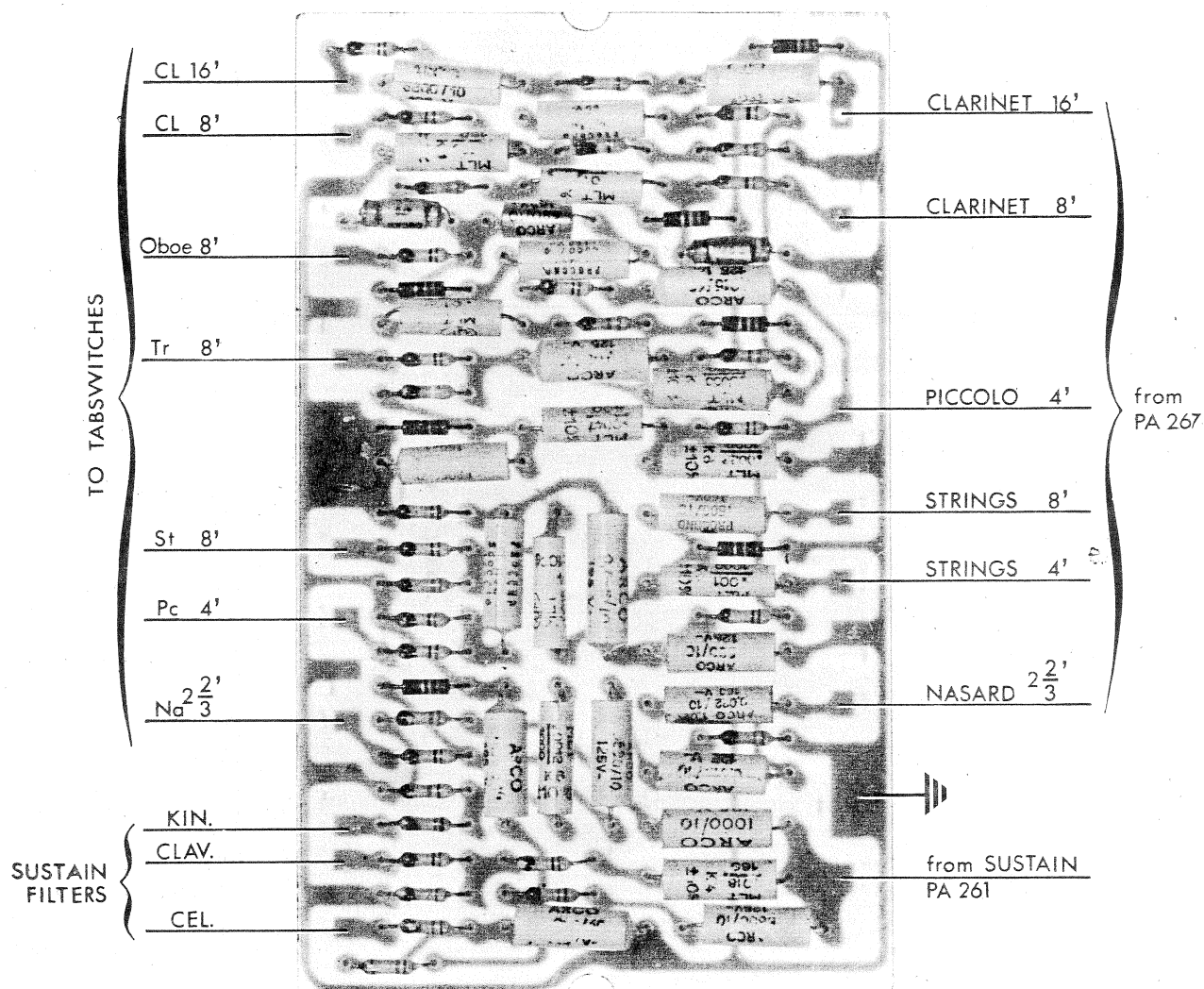
PA 260-2: CHORD SUSTAIN MODULE



PA 260 : PRINTED CIRCUIT BOARD

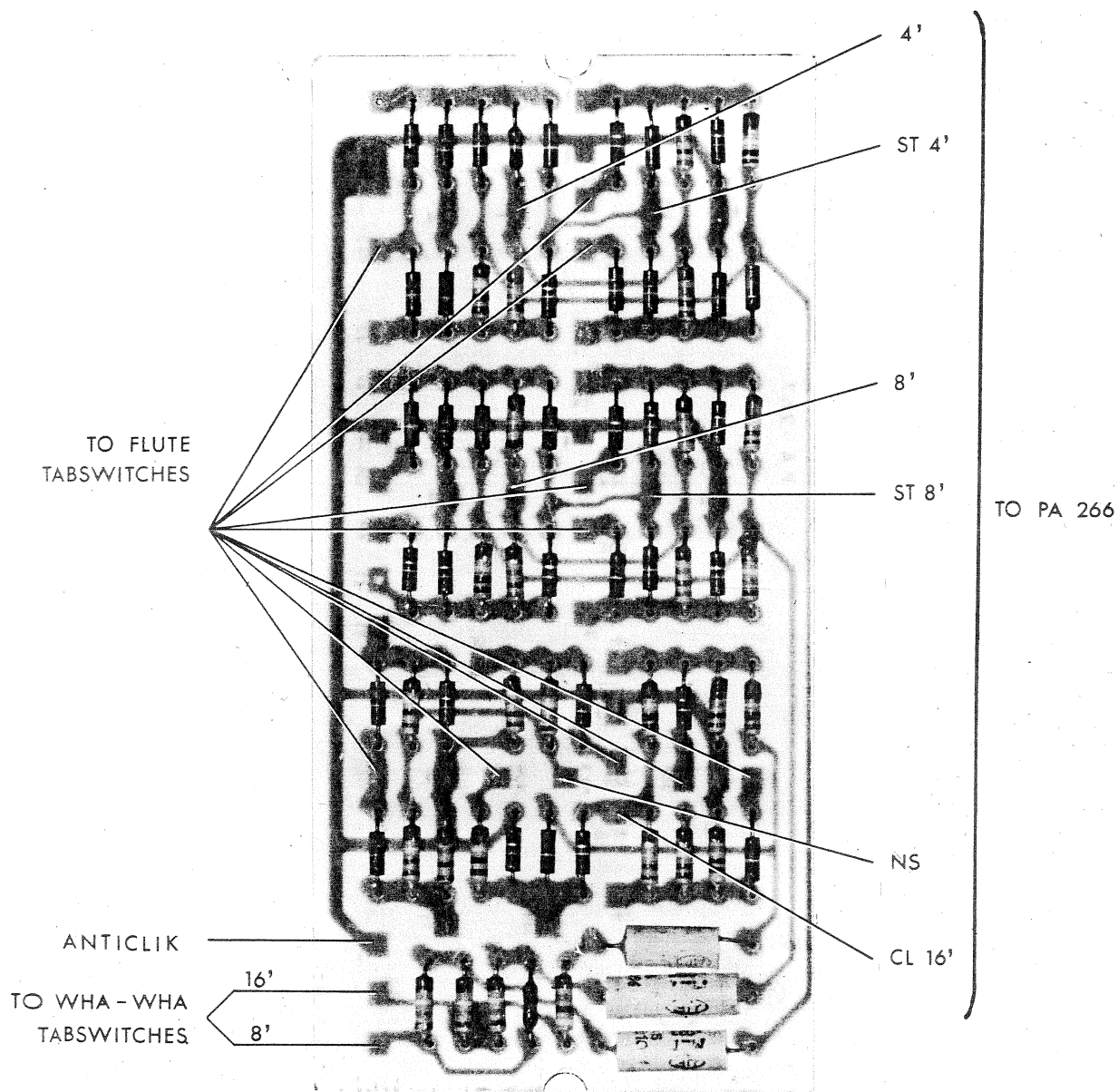


20 PA 266 SUSTAIN - ORCHESTRA FILTERS BOARD---



17

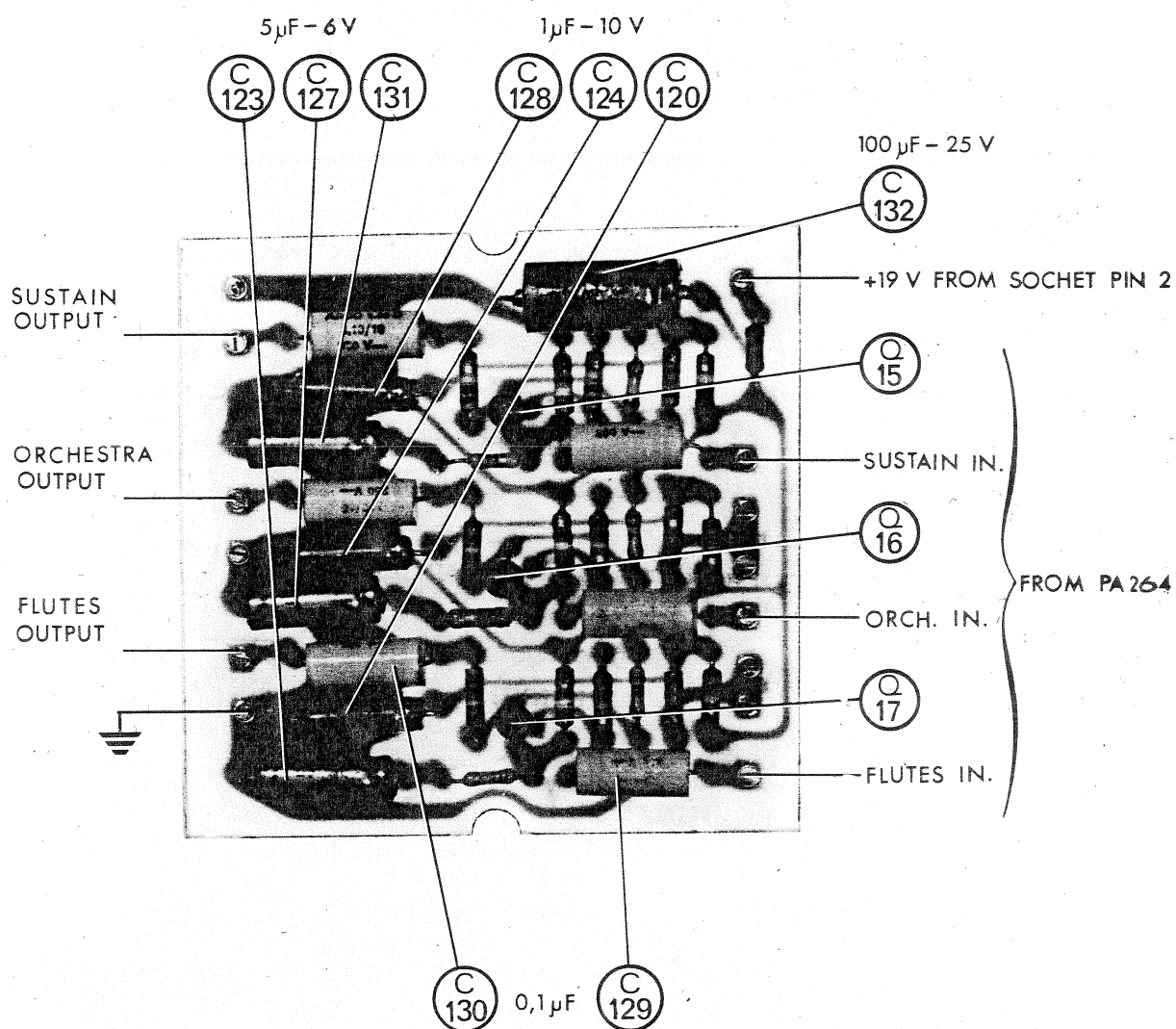
PA 267 SWITCHING BOARD

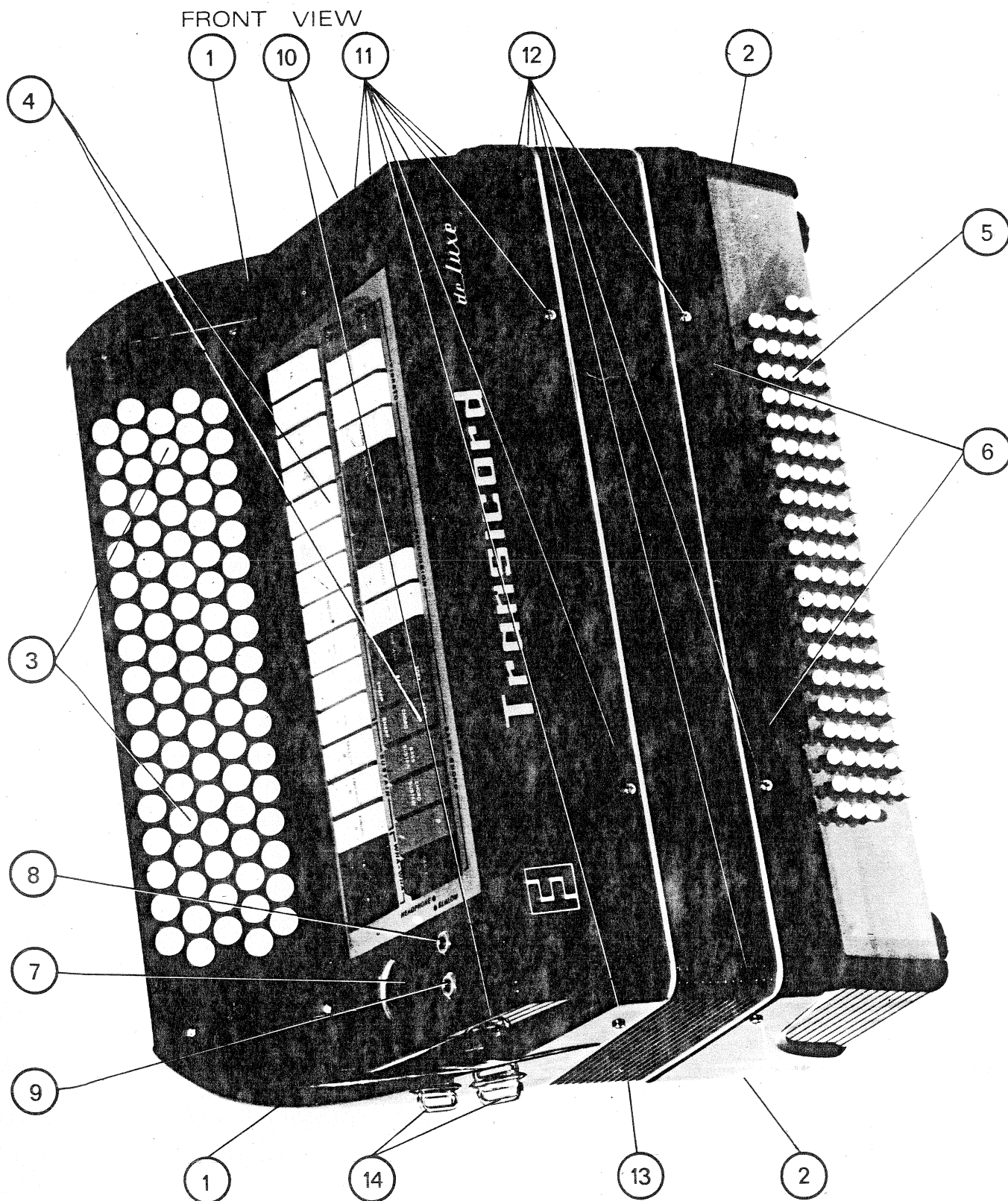


Points listed below are connected to PA 229/a

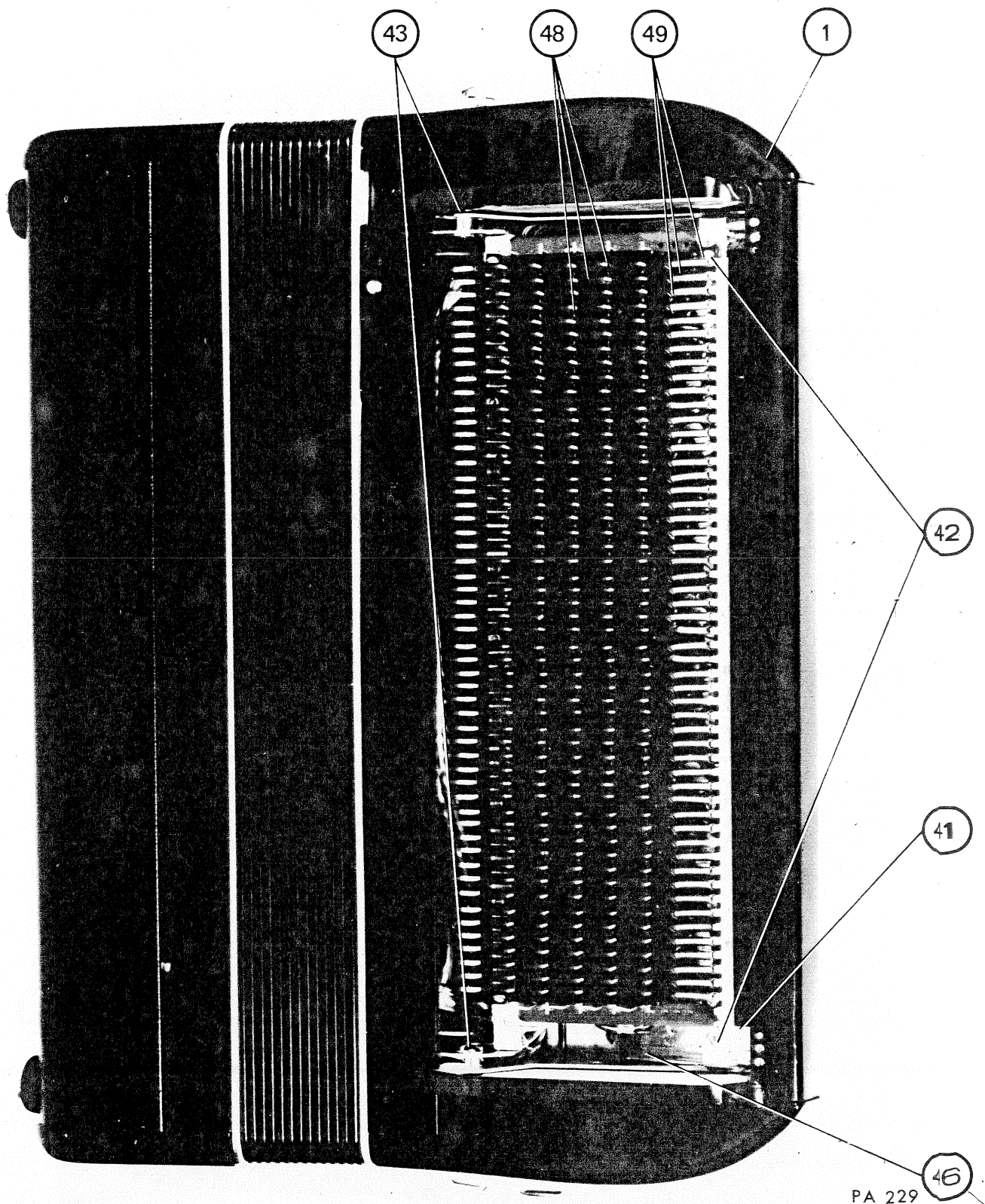
21 · 22 · 23
 41 · 42 · 43 · 44
 81 · 82 · 83 · 84
 161 · 162 · 163

21 PA 271 : SUSTAIN, ORCHESTRA & FLUTES PREAMPLIFIER BOARD





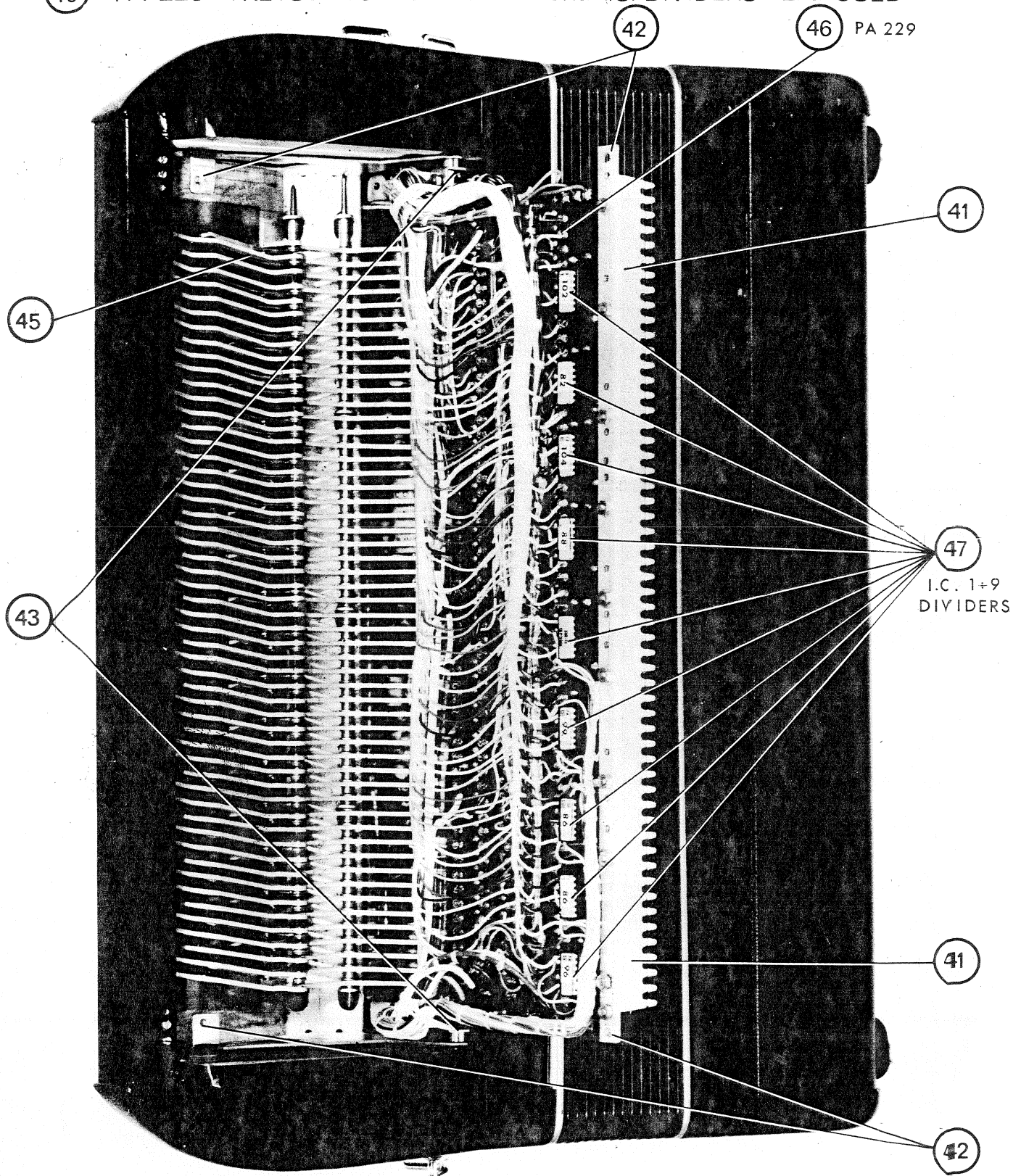
BACK VIEW (Treble case - Panel removed)



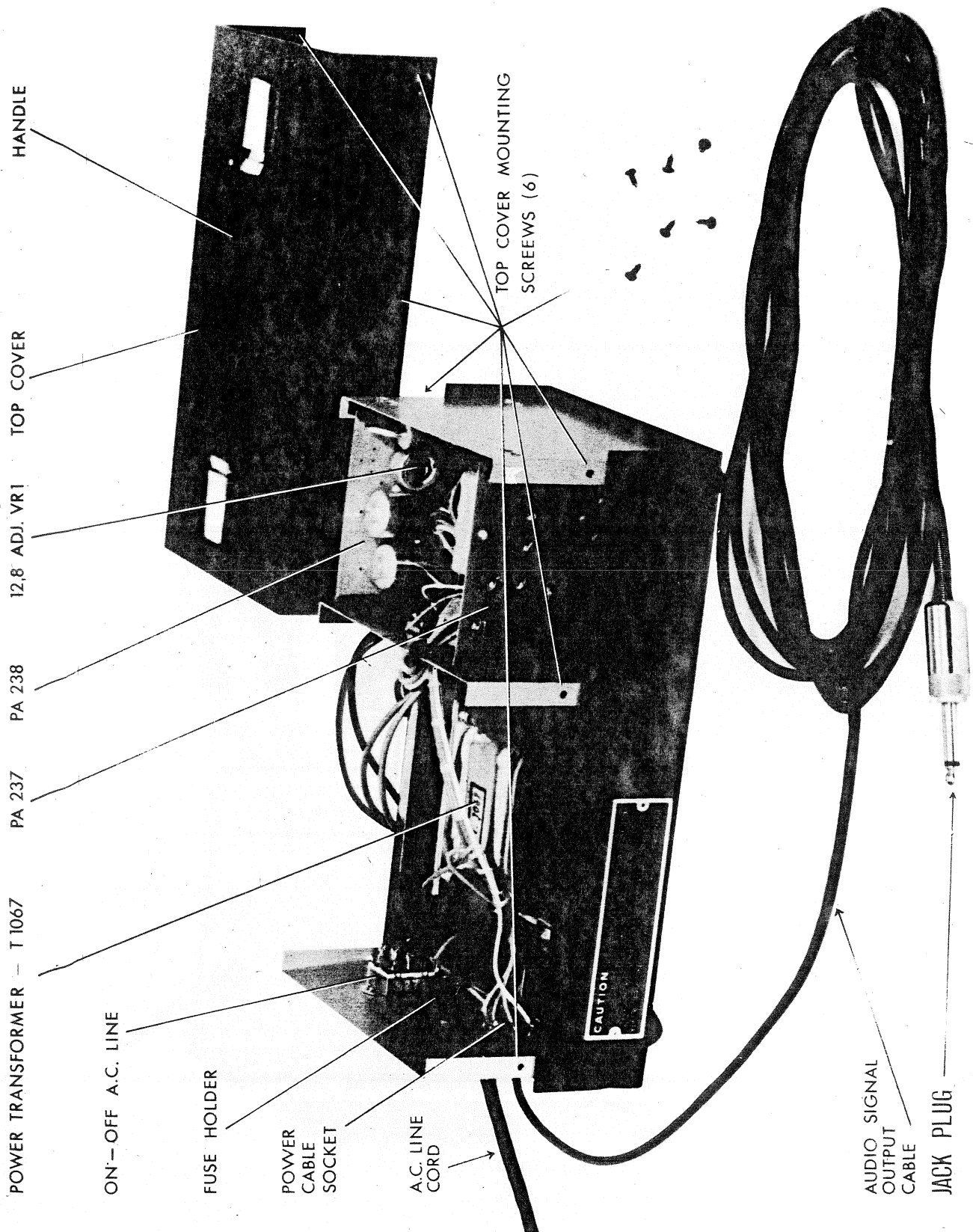
PA 229

BACK VIEW (Panel removed)

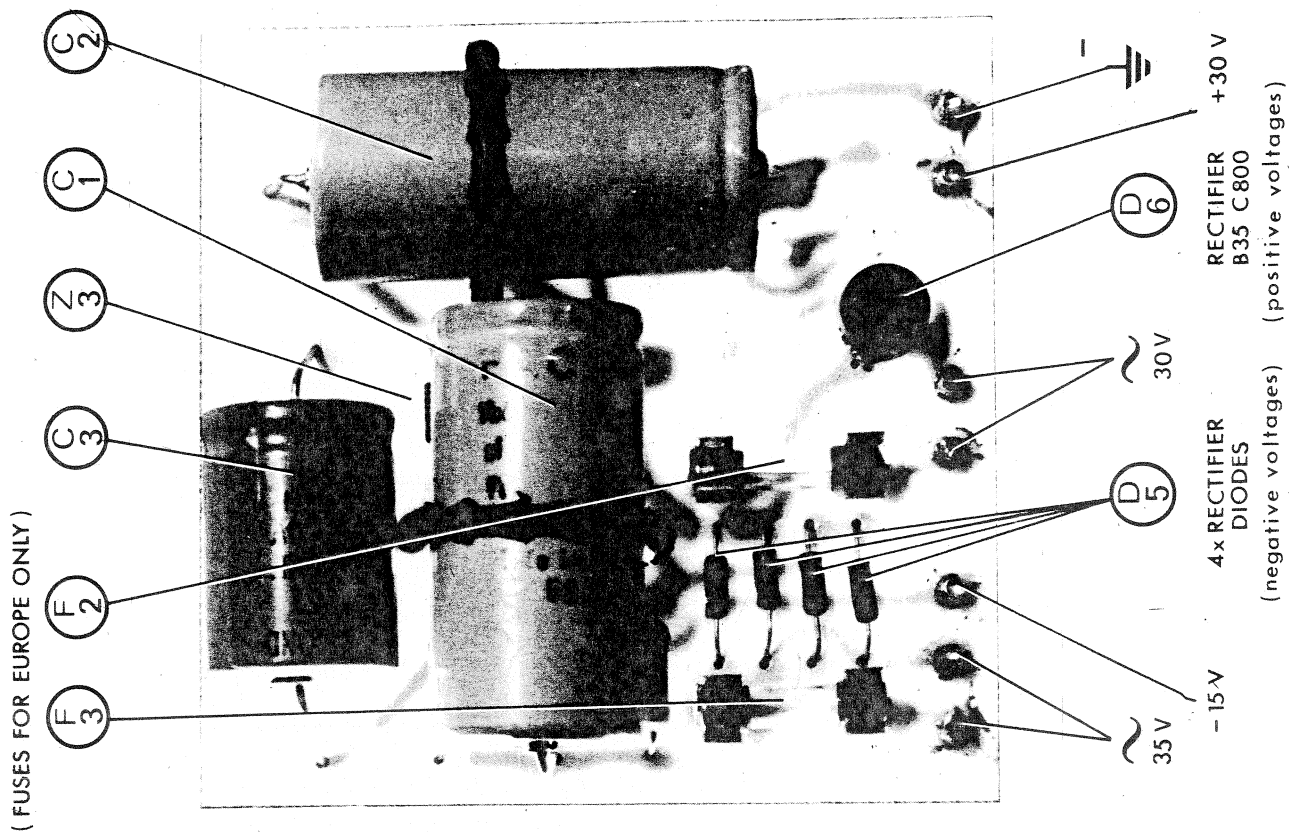
(46) PA 229 - KEYSWITCHES BOARD and I.C. DIVIDERS EXPOSED



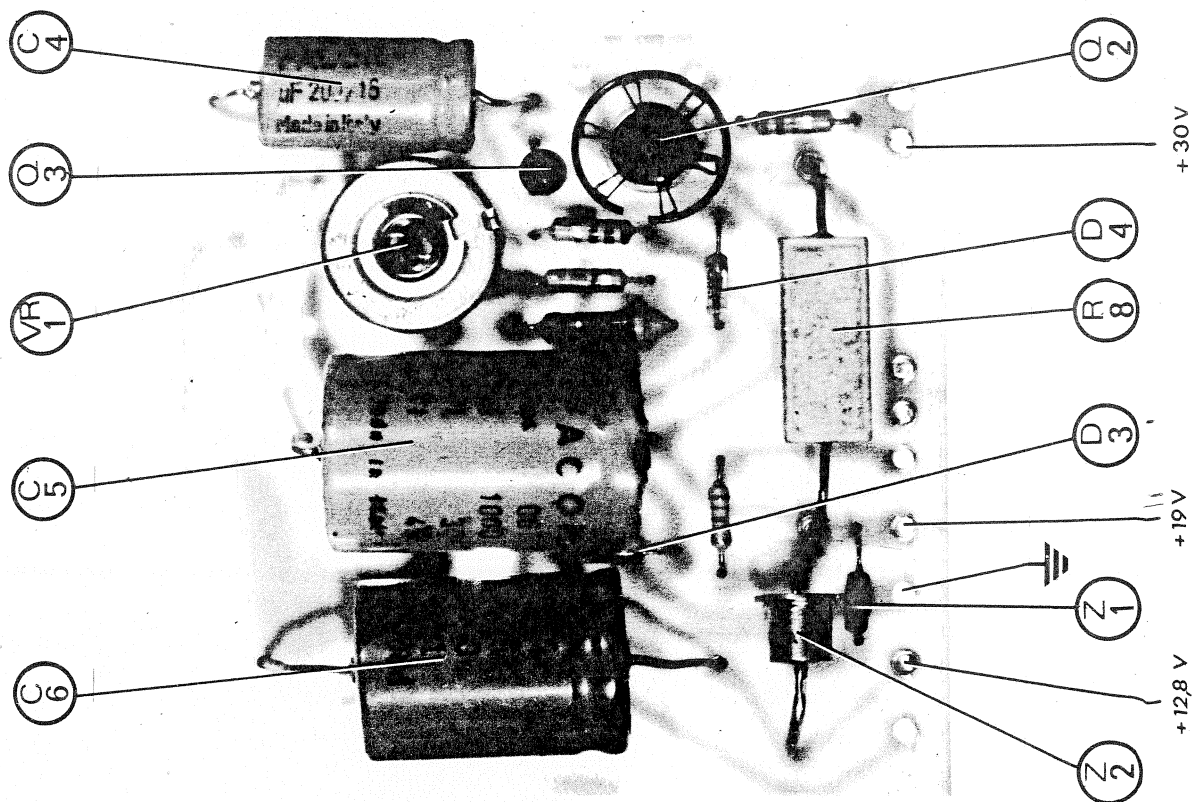
SIDE VIEW (cover removed)



PA 237-2 RECTIFIER BOARD



PA 238 REGULATOR BOARD



Transicord deluxe

PARTS INFORMATION

STANDARD PARTS

Replacements for all standard electronic parts and hardware can be purchased directly from local suppliers generally in less time than would be required to obtain them from the factory.

SPECIAL PARTS

In addition to the standard replacement parts, special electronic parts and mechanical parts are also used. These parts are manufactured by and to the specifications of the factory. Order these parts directly from the factory since they would be difficult or impossible to obtain from other sources.

PARTS ORDERING INFORMATION

When ordering parts be sure to include the following information:

1. Model and Serial Number.
2. Part Code
3. A description of the Part.
4. Specify how you want the part shipped.

Most special electronic parts and mechanical parts will have a part number stamped on them. In the event that the part number is missing, or you are unable to read the part number, a complete description of the part and where it is used will allow the factory to fill your parts order.

When parts are ordered in the proper manner the factory is able to fill your orders promptly, delays that might result are avoided.

PARTS LIST

THE PARTS LIST contains the following information:

1. Name of Part.
2. Brief Description.
3. Where the Part is found (figure, number).
4. Schematic reference.
5. PART CODE.

The parts list includes all standard stock replacement parts. No attempt has been made to include every nut, bolt, screw, resistor, and capacitor.

If the necessity for a non-listed part arises, please write describing the parts location and function as well as model and serial number of the unit.

IMPORTANT ! In any correspondence concerning this instrument **ALWAYS**
INCLUDE MODEL AND SERIAL NUMBERS.

Transicord deluxe

S E R V I C E N O T E

Beginning from serial N° A/6117 the following modifications have been introduced:

- 1) Headphone jack (item 8 in fig. 1.5.6.16) has been deleted, and in its place a separate Bass output has been introduced, to allow separate amplification for the treble and bass sections.
- 2) Inside the treble section of the instrument, supported by the tabswitches metal chassis (item 29 in fig. 5.6) a new board "Bass output amplifier" has been added. This board amplifies the signal for the above mentioned "Bass output" jack (item 8)
- 3) The following items have been added to the "Transistors & diodes List":

Schem. Ref.	Circuit	Drawing Ref	Type	Part Code
<u>PA 333</u>	<u>BASS OUTPUT AMPLIFIER board (DWG 8 - SE/106)</u>			
Q 60	Input Preamp.....	{	BC 109 B or C red dot...	W 143 - 148
Q 61	Output Amplifier NPN.....		BC 209 B or C red dot...	W 145 - 150
Q 62	Output Amplifier PNP.....		SGS BC 116.....	W 80

* MISTRAL

Transicord deluxe

PARTS LIST

Part	Description	(No) & Fig.	Part Code	Part Code
			PIANO MODEL	BUTTON MODELS
<u>TREBLE CASE ASSEMBLY</u>		(1) Fig.1-2-16-17	*3000/608	*3000/634
Straps	Shoulder Straps		MASFI/57	MASFI/57
Holder	Shoulder Straps Holder		PT/7-C	PT/7-C
Plate	Shoulder Straps Holder Plate		PS/121-C	PS/121-C
Grille	Complete Grille		*2010/608	*2010/634
Strip	Front Strip, complete, plastic		FI/267	FI/267
Strip	Back Strip, complete, plastic		FI/266	FI/266
Panel	Right cheek block		CZ/52	*2501/634
Panel	Left cheek block		CZ/51	*2502/634
Panel	Right side panel - Button models only .....		.....	FI/291
Panel	Left side panel - Button models only .....		.....	FI/292
Cover	Treble Case back panel		DO/40	DO/41
<u>TREBLE KEYSWITCH ASSEMBLY</u> (for PIANO model only) (3) 1-2-5-6			*3100/608	
Keys	Octave, Natural, C through B - White (3) 1-2-5		*TS/156/162-B	
Keys	Top A - White		*TS/165-B	
Keys	Sharp - Black		*TS/37-N	
Actuator	Keyswitch, plastic	(48) 8	PS/990	
Bar	470 mm		BR/288	
Spring	Key contact		ML/176	
Spring	Natural Keys balance	(49) 8	ML/221	
Spring	Sharp Keys balance	" "	ML/222	
<u>TREBLE KEYSWITCH ASSEMBLY</u> (for BUTTON models only) (3) 16-17			.....	*3100/634
Button	Treble, White, with felt ring ... (3) 16		.....	*BT/76
Button	Treble, Black, with felt ring ... (3) 16		.....	*BT/77
Felt	Ring-felt, under button .....		.....	GZ/383
Stem	Plastic, under Button .....		.....	GM/45
Levers	Button, long size, 1st & 4th row 18		.....	*LV/358/361
Levers	Button, med.size, 2nd & 5th row 18		.....	*LV/359/362
Lever	Button, med.size, 2nd row, single type 18		.....	*LV/359/S
Lever	Button, short size, 3rd row 18		.....	*LV/360
Lever	Button, cut type, 4th row only 18		.....	*LV/363
Spacer	Lever spacer tube .....		.....	BC/52
Plate	Button board with holes .....		.....	SU/747
Actuator	Keyswitch, plastic .....		.....	PS/1217
Spring	Key contact .....		.....	ML/176
Spring	Button Keys balance, 1st row 18		.....	ML/222
Spring	Button Keys balance, 2nd row 18		.....	ML/220
Spring	Button Keys balance, 3rd row 18		.....	ML/221

Transicord deluxe

PARTS LIST

Part	Description	(No) & Fig.	Part Code
TREBLE TABSWITCH ASSEMBLY (for PIANO & BUTTON models) (4) 1-2-5-6-16			
Actuator	Tabswitch; Black plastic	6-6A	PS 1104
Spring	Tabcontact	6-6A	ML 329
Spring	For Actuator	6-6A	ML 178
Tab	SLOW - FAST Complete Blue	(4) 1-2-5-16	*CA/97 - 25
Tab	FLUTES " light grey	" " " " "	*CA/97 - 26
Tab	ORCHESTRA " white	" " " " "	*CA/97 - 27
Tab	SUSTAIN " light green	" " " " "	*CA/97 - 28
Tab	WHA - WHA " dark green	" " " " "	*CA/97 - 29
Tab	LONG - SHORT " dark red	" " " " "	*CA/97 - 30
Tab	SOFT-BASS-SHARP " dark grey	" " " " "	*CA/97 - 31
Tab	SOFT-CHORD-SHARP " dark grey	" " " " "	*CA/97 - 32
Tab	BASS - SUSTAIN " dark grey	" " " " "	*CA/97 - 33
Tab	CHORD - SUSTAIN " dark grey	" " " " "	*CA/97 - 34
Tab	P - f " dark grey	" " " " "	*CA/97 - 35
Tab	CANCEL " black	" " " " "	*CA/97 - 36
Tab	16 " light grey	" " " " "	*CA/97 - 37
Tab	8 " light grey	" " " " "	*CA/97 - 38
Tab	4 " light grey	" " " " "	*CA/97 - 39
Tab	2 2/3 " light grey	" " " " "	*CA/97 - 40
Tab	BASS CLARINET-16 " white	" " " " "	*CA/97 - 41
Tab	CLARINET - 8 " white	" " " " "	*CA/97 - 42
Tab	PICCOLO - 4 " white	" " " " "	*CA/97 - 43
Tab	NASARD - 2 2/3 " white	" " " " "	*CA/97 - 44
Tab	OBOE - 8 " white	" " " " "	*CA/97 - 45
Tab	TRUMPET- 8 " white	" " " " "	*CA/97 - 14
Tab	STRINGS - 8 " white	" " " " "	*CA/97 - 15
Tab	CELESTA - 8 " light green	" " " " "	*CA/97 - 46
Tab	CLAVICHORD- 8 " light green	" " " " "	*CA/97 - 47
Tab	KINURA - 8 " light green	" " " " "	*CA/97 - 48
Tab	16 " dark green	" " " " "	*CA/97 - 49
Tab	8 " dark green	" " " " "	*CA/97 - 50
Tab	P - f " dark green	" " " " "	*CA/97 - 51
Lever	Under Tab .....	.....	LV/301
Connector	Power, Octal, mounted on chassis	(7) 1-5-16	I/121
Recessing	Shell for Octal plug connector	(7) 1-5-16	I/121
Jack	Socket for Headphone and Slalom pedal	(8-9) 1-16	RRSS - 7
Ring	for jack	(8-9) 1-16	DD - 29
Connector	Duo Tyne - 9 Flag contacts	(44) 4-8	I - 6
Connector	9 Contact P.C.board for Duo-Tyne conn.	(23) 4	PC - a/2
Connector	12 Contact P.C.board for Duo-Tyne "	(23) 4	PC - a/1
Support	for P.C. board connectors (plastic)	(23) 4	SU - 436
CABLE POWER with connectors			*2110/608
Connector	octal plug (male) with caps for cable	19	I 121 + 71
Connector	octal socket (female) with caps for cable	19	I 121 + 71

Transicord deluxe

PARTS LIST

Part	Description	(No) & Fig.	Part Code
BASS CASE ASSEMBLY	(for PIANO & BUTTON models)	(2) 1-2-3-16	*5000/608
Panel	Upper, Right side panel		FI/271
Panel	Lower, Right side panel		FI/269
Panel	Upper, Left side panel		FI/270
Panel	Front, Right side panel		FI/264
Panel	Front Left side panel		FI/263
Panel	Lower, Left side panel		FI/268
Panel	Back panel.		FI/265
Cover	Bass Case complete with feet		*FE 142 + PD 5
Feet	For bass cover, complete with rivet		*PD 5 + RB 112
Clip	Bellows Fastener		BT/30 - C
Sign	Farfisa name		NO - 60
Tab	Rhythm control complete		*TS 260+RP 290
Spring	Rhythm control tab balance		ML/319
Board	Rhythm tabswitch assembly		X/88
Connector	Duo - Tyne for P.C. - 9 flag contats (22) 2-3-4		I - 6
Connector	Duo - Tyne for P.C. - 12 flag contats (22) 2-3-4		I - 12
STRAP	Wrist strap		*MAN - 1

BASS & CHORDS KEYSWITCH ASS'Y Fig. 3-3A Schem.Ref. DWG 7

a)- PIANO and BUTTON models: /634 (Danmark, Sweden) & /635 (Norway)

Assembly	Bass & Chords Keyswitches with PA 275 (27) 3-3A DWG 7	*5200/5300/608
Board	PA 275 = complete (with springs) (27) 3-3A PA 275	*5300/608
Spring	Chords contact - complete	ML 219/220
Spring	Bass contact - complete	ML 217/218
Strip	Plastic Chords contact rail	PE 22
Button	Bass button	PI - 1
Actuator	Bass button contact	AR - 30
Spring	Bass button balance	ML - 205
Button	Chord button	PI - 2
Actuator	Major and diminish chords contact	AR - 31
Actuator	Minor chords contact	AR - 32
Actuator	Seventh chords contact	AR - 33
Spring	Chord buttons balance	ML - 206
Potentiometer	10 Kohm - log	P - 102
Knob	for potentiometer	MP - 31

Transicord deluxe

PARTS LIST

Part	Description	(No) & Fig.	Part Code	Part Code
BASS & CHORDS KEYSWITCH ASS'Y Fig.3-3A Schem.Ref.DWG 7				
b) - BUTTON models only: 636 (France,Holland) and: 638 (Belgium,Charleroi,Bruxelles)				
			BUTTON 636	BUTTON 638
Assembly	Bass & Chords Keyswitch with PA 288		*5200/5300/636	
Board	PA 288 complete with springs		*5300/636	
Assembly	Bass & Chords Keyswitch with PA 289 .....		.....	*5200/5300/638 .
Board	PA 289 complete with springs .....		.....	*5300/638
Rod	Bass Buttons	PI - 3 ...		PI - 3 ...
Actuator	Bass Contacts	AR - 55 ..		AR - 57 ...
Spring	Bass Button Balance	ML - 232 .		ML - 232 .
Rod	for Chord and Bass buttons	PI - 4		PI - 4 ...
Actuator	Fundamental Bass Contact	AR - 56 ..		AR - 58 ..
Actuator	Major Chords contact	AR - 59 ..		AR - 59 ..
Actuator	Minor Chords contact	AR - 62 ..		.....
Actuator	Major Chords contact .....	.....		AR - 60 ..
Actuator	Seventh Chord contact	AR - 70 ..		AR - 61 ..
Button	Bass and Chord cap	BT - 78 ..		BT - 78 ..

BELLOWS ASSEMBLY Fig.3 (for PIANO & BUTTON models)

			Part Code
Assembly.	Bellows complete with Expression device(13) 3	.....	*7000/608
Bellows	Bellows only (without Expression device) " "	.....	*7000/30/608
Ass'y	Expression Device complete (16) "	.....	*7010/11/608
Photocell	LDR for the Expression device " "	.....	H1 = H2
Lamp	24 V - 3W for Expression device " "	.....	L 12
Photofilm	Photofilm plate for Expression " "	.....	DI/63
Disk	Turn plate for Expression " "	.....	DI/28
Disk	Upper and Lower plastic plate " "	.....	DI/31
Plate	Expression run " "	.....	PS/533
Spring	40 + 2 turns " "	.....	ML/210
Spring	Expression device balance springs " "	.....	ML/212
Support	Lamp Holder support " "	.....	SU/432
Plate	Lamp negative contact plate " "	.....	CO/23
Plate	Lamp positive contact plate " "	.....	CO/24
Board	P.C. Board - PS 532 for Duo Tyne connect.(24)3-3A	.....	PS/32

Transicord deluxe

PRINTED CIRCUIT BOARDS LIST

Part	Description	(No) & Fig.	Schem.Ref.	Part Code
PA 229 PA 287	<u>TREBLE KEYSWITCHES with I.C. Dividers</u>	(46-47) 8, 9 17, 18	<u>DWG 2 - 3</u>	
Board	PA 229 - complete with I.C. socket for Piano model only	(46) 9	PA 229	*6339/608
Board	PA 287 - complete with I.C. socket for Button models only ..	(46) 18	PA	*6397/634
Socket	I.C. Dividers (14 pin).....	(47) 9, 18	I.C. 1 ÷ 9	I/117
PA 234	<u>TONE GENERATOR ASSEMBLY</u>	(34) 7, 8	<u>DWG 2</u>	
Board	PA 234 - Generators - complete (D-G-C-F-A#-D# note)	(34) 7-8	PA 234	*6019/608-D
Board	PA 234 - Generators - complete (G#-C#-F#-B-E-A- note)	(34) 7-8	PA 234	*6019/608-G
Trimmer	Pot. 2,2 Kohm - Tuning -	(35) 7-8	VR 1	P/6
PA 261	<u>SUSTAIN ASSEMBLY</u>	(25-26-38-39) 3-8-12	<u>DWG 2 - 7</u>	
Board	PA 260 - Treble Sustain Module, comp. Fig. 12		PA 260	*6340/608
Board	PA 260-1 Bass Sustain Module, complete " 12		PA 260-1	*6341/608
Board	PA 260-2 Chord Sustain Module, comp. " 12		PA 260-2	*6342/608
Board	PA 261 Treble Sustain Assembly with 21 PA 260 module ...	(39) 8-12	PA 261	*6343/608
Board	PA 261-1 Treble Sustain Assembly with 20 PA 260 module ...	(38) 8-12	PA 261-1	*6344/608
Board	PA 261-2 Bass and Chords Sustain Ass'y with 12 PA 260-1 module and 12 PA 260-2 module	(25) 3-12	PA 261-2	*6345/608
Board	PA 261+4 Treble Sustain Assembly with 24 PA 260 module For BUTTON models only			*6398/634
PA 263	<u>FLUTE FILTER - WHA WHA - PERCUSSION ASS'Y</u>	(18) 2-4-10	<u>DWG 4 - 6</u>	
Board	PA 263 Complete	(18) 2-4-10	PA 263	*6346/608
Coil	800 mH	Fig. 10	T 1	*14033
Trimmer	Pot. 22 Kohm - 1660 Hz Filter Adj.	Fig. 10	VR 4	I/24
PA 264	<u>FLUTE FILTERS 207 - 415 - 830 Hz</u>	(19) 2-4-11	<u>DWG 4</u>	
Board	PA 264 - Complete	(19) 2-4-11	PA 264	*6347/608
Trimmer	Pot. 22 Kohm - Flute filters Adj.	(19) 2-4-11	VR 3 - 5 - 6	I/24

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PRINTED CIRCUIT BOARDS LIST

Part	Description	(No) & Fig.	Schem.Ref.	Part Code
<u>PA 265 BASS - CHORDS FILTERS and AMPLIFIERS</u>				
Board	PA 265 - Complete	(32) 6-6A	DWG 7 - 8	
Trimmer	Pot. 1 Kohm Anticlick Adj. (+5,6)	6-6A	VR 23	P/8
Trimmer	Pot. 4,7 Kohm = Output level Adj.	6-6A	VR 22	P/37
Trimmer	Pot. 22 Kohm = Bass soft and Sharp filters Adj.	6-6A	VR 15 - 16	P/24
<u>PA 266 SUSTAIN - ORCHESTRA FILTERS</u>				
Board	PA 266 - Complete	(20) 2-4-13	DWG 5	
		(20) 2-4-13	PA 266	*6348/608
<u>PA 267 SWITCHING</u>				
Board	PA 267 - Complete	(17) 2-4-14	DWG 3	
		(17) 2-4-14	PA 267	*6350/608
<u>PA 268 RHYTHMS & VIBRATO ASS'Y</u>				
Board	PA 268 - Complete	(33) 6-6A	DWG 6 - 8	
		(33) 6-6A	PA 268	*6351/608
Coil	220 mH	6-6A	T 5	T/4011
Trimmer	Pot. 1 K- Brush & Drum Level Adj.	6-6A	VR 20-21	P/8
Trimmer	Pot. 22 Kohm - Vibrato Adj.	6-6A	VR 10	P/24
Trimmer	Pot. 47 Kohm - Vibrato Adj.	6-6A	VR 11	P/34
<u>PA 271 SUSTAIN AMPLIFIER</u>				
Board	PA 271 - Complete	(21) 2-4-15	DWG 6	
		(21) 2-4-15	PA 271	*6352/608
<u>PA 275</u>				
<u>PA 288 BASS & CHORDS KEYSWITCHES</u>				
<u>PA 289</u>				
Board	PA 275 - Complete with contact springs for PIANO and BUTTON models 608, 634 and 635	(27) 3-3A	PA 275	*5300/608
Board	PA 288 - Complete with contact springs for BUTTON model 636	(27) 3-3A	PA 288	*5300/636
Board	PA 289 - Complete with contact springs for BUTTON model 638	(27) 3-3A	PA 289	*5300/638

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CAPACITORS LIST

μF	WVDC	PRINTED BOARDS REFERENCE	(No) & Fig.	Drawing	Ref.	Part Code
ELECTROLYTIC						
1	25	PA 263 = PA 268	6-6A-10	4 - 6 - 8		C 41
5	25	PA 263 = PA 268	6-6A-10	4 - 6 - 8		C 1030
10	25	PA 263 = PA 268	6-6A-10	4 - 6 - 8		C 1009
25	25	PA 263 = PA 268	6-6A-10	4 - 6 - 8		C 1012
50	15	PA 263 = PA 265 = PA 268	6-6A-10	4 - 6 - 7 - 8		C 1002
50	25	PA 260	12	2 - 7 ...		C 81
100	15	PA 268 = PA 271	6-6A-15	6 - 8 ...		C 92
100	30	PA 264	11	4		C 93
200	15	PA 263 = PA 265	6-6A-10	4 - 6 ...		C 1057
500	25	PA 268	6-6A ..	6 - 8 ...		C 1039
500	30	PA 234	7-8 ...	2		C 42
1000	12/16	PA 265	6-6A ..	7 - 8 ...		C 1000
1000	25	PA 265	6-6A ..	7 - 8 ...		C 1041
POLYESTER FILM						
0, 1	200 V.	PA 229/287 = 263 = 264 = 265 =	6-9-10-11	2 - 3 - 4		C 526
		PA 267 = 268 = 271	14-15-18	6 - 7 - 8		C 526
0, 15	200 V.	PA 264 = 265	11-6-6A	4 - 7 - 8		C 525
0, 18	200 V.	PA 263 = 268	10-6-6A	4 - 6 - 8		C 608
0, 22	200 V.	PA 263 = 265	10-6-6A	4 - 6 ...		C 549
0, 27	200 V.	PA 263 = 264	10-11..	4 - 6 ...		C 527
0, 47	200 V.	PA 264	11	4		C 528
1	250 V.	PA 264 = 265 = 268	11-6-6A	4 - 6 - 7 - 8		C 157
MINIATURE METALLIZED POLYESTER FILM						
1 Kp	200 V 10 %	PA 265 = 268	6-6A ..	6 - 7 - 8		C 602
0, 056	200 V "	PA 263 = 265	10-6-6A	4 - 6 - 7 - 8		C 620
0, 1	200 V "	PA 265	6-6A ..	7 - 8 ...		C 151
0, 18	200 V "	PA 263	10	4 - 6 ...		C 608
0, 22	200 V "	PA 265 = 268	6-6A ..	6 - 7 - 8		C 606
0, 47	200 V "	PA 265	6-6A ..	7 - 8 ...		C 616
1	250 V "	PA 264 = 265 = 268	11-6-6A	4 - 6 - 7 - 8		C 157
POLYCARBONATE FILM						
330	125 V 10 %	PA 266	13	5		C 536
470	125 V "	PA 266	13	5		C 537
560	125 V "	PA 265 = 268	6-6A ..	6 - 7 - 8		C 532
680	125 V "	PA 266 = 268	13-6-6A	5 - 6 - 8		C 542
CERAMIC						
150	125 V 10 %	PA 260 = 260- 1 = 260 - 2	12	2 - 7 ...		C 233
220	125 V "	PA 268	6-6A ..	6 - 8 ...		C 535
330	125 V "	PA 268	6-6A ..	6 - 8 ...		C 536

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TRANSISTORS & DIODES LIST

Schem.Ref.	Circuit	(No) & Fig.	Type	Part Code
<u>PA 229</u>	<u>TREBLE CONTACT BOARD (46-47) Fig.9</u>		(for PIANO model only)	
I.C. 1+9	Integrated frequency divider.....			W 127
<u>PA 234</u>	<u>TONE GENERATOR (34) Fig. 7</u>			
Q 1				
Q 2	Mvbtr. Master Oscillator.....		2N 5172.....	W 126
Q 3				
D 1				
D 2	Base breakdown protection.....		SGS IX 9809.....	B 34
D 3	Threshold.....		PAE R/6.....	B 18
			IRCI 10D4.....	B 51
<u>PA 260</u>	<u>SUSTAIN MODULE (38-39) Fig. 8-12</u>			
D 4	Sustain gate.....		SGS IX 9809.....	B 34
<u>PA 260-1</u>	<u>BASS SUSTAIN MODULE (25) Fig. 3-12</u>			
D 15				
D 16	Sustain gate.....		SGS IX 9809.....	B 34
<u>PA 260-2</u>	<u>CHORD SUSTAIN MODULE (25) Fig. 3-12</u>			
D 17	Sustain gate.....		SGS IX 9809.....	
<u>PA 263</u>	<u>FLUTE FILTER - WHA WHA - PERCUSSION (18) Fig. 2-4-10</u>			
Q 7	1660 Hz. Flute Filter.....		BC 109 B or C red dot	W 143- W 145
			*BC 209 B or C red dot	W 148- W 150
Q 8	1660 Hz. Buffer.....		BC 109 B or C blue dot	W 144- W 146
			*BC 209 B or C blue dot	W 149- W 151
Q 18	Wha Wha modulator.....		BC 109 B or C red dot	W 143- W 145
Q 19			*BC 209 B or C red dot	W 148- W 150
			BC 108 B or C	W 106- W 107
Q 20	Percussion Pulse detector.....		*BC 208 B or C	W 116- W 117
			BC 109 B or C	W 101- W 98
			*BC 209 B or C	W 110- W 111
Q 21				
Q 22	Percussion Mvbtr.....		2N 5172.....	W 126
Q 23	Percussion Keyer.....		BC 109 B or C red dot	W 143- W 145
Q 24	Percussion preamplifier.....		*BC 209 B or C red dot	W 148- W 150
D 10	Attack Driver.....		OA 70.....	B 8

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TRANSISTORS & DIODES LIST

Schem.Ref.	Circuit	(No) & Fig.	Type	Part Code
<u>PA 264</u>	<u>FLUTE FILTERS</u>	<u>(19) Fig. 2-4-11</u>		
Q 5	830 Hz Flute Filter.....		BC 109 B or C red dot	W 143- W 145
Q 9	207 Hz Flute Filter.....		*BC 209 B or C red dot	W 185- W 150
Q 11	415 Hz Flute Filter.....			
Q 6	830 Hz Buffer.....		BC 109 B or C blue dot	W 144- W 146
Q 10	207 Hz Buffer.....		*BC 209 B or C blue dot	W 149- W 151
Q 12	415 Hz Buffer.....			
<u>PA 265</u>	<u>TREBLE PREAMPLIFIER & OUTPUT AMPLIFIER</u>	<u>(32) Fig. 6</u>		
Q 35	Bass Filter.....			
Q 36	Bass & Chords Preamplifier.....		BC 109 B or C red dot	W 143- W 145
Q 37	Chord Filter.....		*BC 209 B or C red dot	W 148- W 150
Q 51	Treble Preamplifier (1° stage) ..			
Q 52	Treble Preamplifier (2° stage) ..		SGS IW 9640.....	W 89
Q 53	Output amplifier (1° stage).....		BC 109 B or C red dot	W 143- W 145
Q 54	Output amplifier (2° stage).....		*BC 209 B or C red dot	W 148- W 150
Q 55	Output amplifier (3° stage).....		SGS BC 116.....	W 80
<u>PA 268</u>	<u>VIBRATO-DRUM & BRUSH SECTION - BASS CHORDS & RHYTHMS</u>	<u>PREAMPL.(33) Fig.6</u>		
Q 25	Vibrato phase splitter.....		BC 109 B or C red dot	W 143- W 145
Q 26	Vibrato preamplifier.....		*BC 209 B or C red dot	W 148- W 150
Q 27	Vibrato phase Keyer.....		SGS IW 11706.....	W 71
Q 28	Vibrato oscillator.....		2N 5172	W 126
Q 40	Drum pulse detector.....		BC 109 B or C	W 98- W 101
Q 41	Brush Pulse Detector.....		*BC 209 B or C	W 110- W 111
Q 42	Drum Multivibrator.....		2N 5172.....	W 126
Q 43	Brush Multivibrator.....			
Q 44	Drum Multivibrator.....		SGS IW 11711.....	W 112
Q 45	Brush Multivibrator.....		SGS IW 9640.....	W 89
Q 46	Noise Generator.....		2N 5172.....	W 126
Q 47	Drum Oscillator.....		SGS BC 115.....	W 28
Q 48	Brush Keyer.....		SGS IW 9640.....	W 89
Q 49	Bass chords & Rhythms.....		BC 109 B or C red dot	W 143- W 145
			*BC 209 B or C red dot	W 148- W 150
Q 50	Bass chords & Rhythms preampl...		SGS IW 9640.....	W 89

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TRANSISTORS & DIODES LIST

Schem. Ref.	Circuit	(No) & Fig.	Type	Part Code
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PA 268

Cont'd

Z 1	Brush noise Generator.....	SGS IZ 9824.....	B 27
D 20	Drum Control Driver.....		
D 21	Control Driver.....	SGS IX 9809	B 34
D 22	Diode.....		
D 23	Diode.....		

PA 271

SUSTAIN AMPLIFIER (21) Fig. 2-4-15

Q 15	Sustain preamplifier	BC 109 B or C red dot	W 143- W 145
Q 16	Orchestra preamplifier.....	*BC 209 B or C red dot	W 148- W 150
Q 17	Flutes preamplifier.....		

PA 287

TREBLE CONTACT BOARD (46-47) Fig.17-18 (for BUTTON models only)

I.C. 1+ 9	Integrated frequency divider	W 127
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Power Supply Unit-"ATR/3"-

PARTS LIST

Part	Description	(No) & Fig.	Schem.Ref.	Part Code
POWER SUPPLY UNIT = ATR/3		Fig.19-20-21	DWG 1-SE/105	ATR/3=RE617
Cord	A.C.POWER (USA = UL).....	fig.19-20	.....	K 191
"	A.C.POWER (CANADA = CSA).....	" " "	.....	K 38
"	A.C.POWER (EUROPE) .....	" " "	.....	K 27
Fuse	4/10 A Slo-Blo,3 AG (USA,CANADA)	" " "	.....	F 61
"	200 mA Slo-Blo,5 x 20 mm (EUROPE)	" " "	.....	F 1
Fuse Holder	n USA - CANADA Type .....	" " "	.....	S 34
"	EUROPE Type .....	" " "	.....	S 29A
Jack	Plug (Audio signal output cable)	" " "	.....	RRSS 25
Switch	A.C. ON/OFF -slide - lighted (UID)	" " "	.....	X 82
Socket	Octal, female, for Power Cable	" " "	.....	I 120
Transformer	Power - T 1067-2	" " "	T 1067 ..	T 1067-2
Resistor	82 ohm,10 W,10 %, Wirewound ...	" " "	R 3	R 4070
Resistor	15 ohm,10 W (5W),10 %,WireWound	" " "	R 4	R 4052
Resistor	1,8 ohm,10 W(5W),10 %,WireWound	" " "	R 11	R 4030
Handl	complete .....	" " "	.....	MG 25
PRINTED CIRCUIT BOARDS				
Board	PA 237-2 Rectifier, complete	fig.20-21	PA 237 ..	*6353/617
Board	PA 238 Regulator, complete	" " "	PA 238 ..	*6354/617
Capacitor	200 uF - 25 V , Electrolytic	" "	C 4	C 1054
Capacitor	1000 uF- 25 V , "	" "	C 3 - C 6	C 1041
Capacitor	1000 uF- 40 V , "	" "	C 1 - C 5	C 1066
Capacitor	1000 uF- 50 V , "	" "	C 2	C 94
Fuse	1 A Slo-Blo,5 x 20(only Europe)	" "	F 2	F 6
Fuse	50mA Slo-Blo,5x20 (only Europe)	" "	F 3	F 13
Resistor	560 ohm,5 W, 10 %, WireWound	" "	R 7	R 6 12
Trimmer	Pot. 1 Kohm, WireWound, +19V Adj.	" "	VR 1	P 147

Power Supply Unit "ATR/3" - TRANSISTORS & DIODES LIST

Schem.Ref.	Circuit	(No) & Fig.	Type	Part Code
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CHASSIS POWER SUPPLY Fig. 20-21 = DWG 1 SE/105

Q 1	Series Regulator	SGS BD 117	W 84
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PA 237 POWER SUPPLY= RECTIFIER BOARD = Fig. 20-21

D 5	Rectifier (4 Diodes) ...	SGS IX 9809	B 34
D 6	Rectifier Bridge	GIE B35-C800	Y 22
Z 3	Voltage Regulator, 15V, Zener Diode	ITT STANDARD ZF 15	B 85

PA 238-1 POWER SUPPLY= REGULATOR BOARD = Fig. 20-21

Q 2	Driver Transistor	SGS BC 143	W 63
Q 3	Feedback Amplifier	BC 107 A or B .. MISTRAL BC 207 A or B	W 103- W 104 W 108- W 109
D 1	Current limiter (first serial only)	SGS IX 9809	B 34
D 2 V			
D 3	Temperature Compensator	SGS IX 9809	B 34
D 4			
Z 1	Voltage reference, Zener Diode	MULLARD BZY 88-65V6 IRCI 1N 708..... ITT STANDARD ZF 5,6	B 38 B 68 B 69
Z 2	+12 V drop - Zener Diode	IRCI 1Z 6,2 IRCI 1ZC 6,2 ITT STANDARD ZD 6,2 MULLARD BZY 96 C6V2	B 87 B 88 B 89 B 90